

SECTION 3

SUBMISSION REQUIREMENTS

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SECTION 3

SUBMISSION REQUIREMENTS

3.1 GENERAL

A project may be a single construction contract, or it may consist of multiple construction contracts within a project or a Design Section. Generally, all projects have a preliminary and final design. However, if in the Authority's Engineering Department opinion a preliminary design phase is unnecessary, such as a "deck repair project", they may direct that a project proceed directly to later the stages of final design.

In the following pages, the number of sets of plans required for submittal with each phase submittal is given. These are approximate numbers anticipated to be required for complete plan review; however, the Authority's Engineering Department may at times find it necessary to revise the number of sets required for any phase submittal. The Engineer shall confirm the number of sets required with the Authority's Project Manager three (3) weeks prior to each submission.

When a phase review is completed, one (1) or more set(s) of contract documents may be returned to the Engineer, which will reflect the comments of the reviewers noted in red. When the succeeding Phase is submitted, the Engineer is to include these comment sets as part of the submission. Every comment shown on the sets is to be addressed. No comments are to be ignored or dismissed, but they all must be acknowledged with a check mark signifying agreement, or an explanation or answer given. All of the Engineer's responses to the comments are to be green pencil and written directly on the comment set.

Review periods will be established on a project-by-project basis. Generally, the Authority's Engineering Department requires two (2) weeks to review a phase submission, and a consultant will be permitted a two (2) week period to prepare a rebuttal to the comments.

3.2 COORDINATION WITH OUTSIDE AGENCIES

As part of their work in preparing contract plans, it will be necessary for the Engineer to meet with outside agencies as approved or as directed by the Authority's Engineering Department concerning such matters as the relocation or rearrangement of local roadways, utilities, sewerage works, etc. To keep the Authority's Engineering Department well informed regarding the progress of the plans and the commitments made by both sides during these discussions, the Engineer is to submit to the Authority's Engineering Department four (4) copies of a memorandum of record covering each meeting held with any outside agencies. The memoranda are to contain at least the following:

Agency contacted and the reason for the meeting; the date and location of the meeting; list of persons in attendance with their titles and level of responsibility; topics discussed and solutions reached; criteria used for resolving problems such as: company policy, municipal ordinance, State Board of Health requirement, etc.; areas

requiring Authority decisions; problems unresolved; and areas where betterments are involved and the extent to which the outside agency is aware of its participation.

In addition, the Engineer is to submit the Authority's Engineering Department four (4) copies of all correspondence both to and from these outside agencies in which approvals, concurrences or any commitments are made by either the Engineer or the outside agency. Four (4) copies of correspondence for receipt of transmission of plans, specifications, etc., to or from the Engineer, are also to be sent to both the Authority's Engineering Department.

3.3 PRELIMINARY DESIGN

Preliminary design studies are to be developed at either 1"=100' or 1"=200' scale, which will be used to establish preliminary horizontal and vertical alignment, stormwater management characteristics, interchange configurations and local road treatments. During this stage, preliminary cost estimates and tentative maintenance and protection of traffic schemes will be initiated, and an approximate right of way impact identified.

Studies are to be shown on reproducible topographic or aerial photo base maps, as directed by the Authority's Engineering Department and are to be accurately drawn in Computer Aided Drafted (CAD).

Where required or warranted, alternative studies are to be made. The studies may consist of, but need not be limited to, horizontal and vertical alignment shifts, channelization alternatives, alternative interchange configurations and right of way comparisons. In all alternative studies, the presentation is to be similar to the remainder of the project and for each alternative, the Engineer will prepare a cost estimate, a list of advantages and disadvantages and their recommendations.

When the preliminary plans are submitted for review and approval, the submission shall consist of the following:

1. Three (3) sets of prints and a printable document format (PDF) file of the plans and profiles.

A minimum of one (1) set shall be colored, and additional colored sets may be requested by the Authority's Engineering Department, showing the proposed construction in accordance with the following legend:

Water and Waterways	—	aqua
Authority Roadways	—	yellow mainline, ramps, U-turns, etc.
Authority Shoulders	—	brown
Local Roads	—	green
Right of Way	—	red
Structure Outlines	—	black
Slope Lines	—	dashed
Cut	—	brown
Fill	—	green
Parks, Hatched	—	green
Mileposts, Outlined	—	black

2. Alternatives studied including alignments, environmental concerns, schedule considerations and cost estimates.
3. Project cost estimate and contract breakdown with respective costs.
4. A statement describing the project; any problem areas warranting detailed studies during a subsequent phase; meetings held with various agencies to resolve problems such as roadway widths, etc.; brief construction sequence; estimated earthwork as to quantity of borrow or waste for the project; environmental and permit concerns and construction coordination with adjacent projects.
5. Typical sections showing lane dimensions, local roadway widths, grading criteria, median treatment, etc.
6. Show the proposed project and the approximate locations of existing utilities in plan with conflicts identified.

3.4 FINAL DESIGN

3.4.1 General

During the preparation of final contract plans, interim submissions are to be made to the Authority's Engineering Department. These phase submissions are required at various stages in development to allow for review of the material first, for concept, subsequently for specifics and, finally, for completeness. The submissions are defined as follows:

Phase "A" - graphical 1" = 50' or 1" = 30' scale plans - contract documents 35 percent complete. A single submission should cover an entire project or Design Section.

Phase "B" - computed alignment - contract documents 70 percent complete. A separate submission is required for each construction contract within a project or Design Section.

Phase "C" - complete plans, quantities, specifications, schedule and cost estimates - contract documents are 95 percent complete and subject to thorough review by the Authority's Engineering Department. A separate submission is required for each construction contract within a project or Design Section.

Phase "D" – complete plans and specifications revised in accordance with comments resulting from Phase "C" review. The Contract is 100 percent complete and ready for advertisement. A separate submission is required for each construction contract within a project or Design Section.

However, when multiple construction contracts are required within a Design Section, or the environmental permitting encompasses multiple Design Sections, the Phase "A" submittal requirements may be modified at the direction of the Authority's Project Manager, to include more detailed design. Such elements may include, but are not limited to, computed alignment, recommended foundation type(s), structural GP&E, completed drainage system, etc. In such instances, interim submissions, as directed by the

Authority's Project Manager, will be required before the formal Phase "A" submission, which may include the computed alignment, stormwater management impacts, bridge type studies, etc.

In the case of construction contracts involving Architecture / Buildings Subsection 6B.7 of Section 6B (Structures Plan Preparation) of this Manual shall be referred to for modified submission requirements.

All submission documents shall indicate the phase submittal and the date of the submission.

3.4.2 Phase "A" Submission

A Phase "A" submission is a graphical 1"=50' or 1"=30' scale horizontal alignment and graphical 1"=5' vertical and 1"=50' horizontal scale profiles. The minimum information required for a Phase "A" submission is as follows:

1. The submission shall consist of a complete electronic submission in PDF format and six (6) copies of all materials, with three (3) sets of plans colored in accordance with the color scheme noted for Preliminary Plans. One (1) or more sets will be returned to the Engineer with review comments in red, and there may be additional written comments in memorandum format.
2. The Engineer shall submit a Design Element Modification Request (Exhibit 3-5) to the Authority's Engineering Department listing all design elements that do not meet the minimum criteria, if there are any. Except in very specific cases with explicit justification, approval of modified design elements will not be granted. Back up shall be included detailing why a design element shall not be standard, including impacts and costs. If any specific design criteria is not met and appropriate approvals from the Authority's Engineering Department are not received, the submission will be rejected without further or complete review, and a resubmission will be required, at no additional cost to the Authority.
3. The alignment shall be at 1"=50' or 1"=30' scale. If 2' x 3' cut sheets are used, the same information as shown on these sheets is to be reproduced and the cut sheets are to be spliced together to form a manuscript. Large sheets shall be used in interchange areas in an attempt to show the full interchange on the fewest number sheets possible.
4. Alignments shall show all horizontal information, including roadway designations, stationing, station equations, normal pavement dimensions and cross slopes, pavement dimensions at beginning and end of transitions, radii, PC and PT locations, superelevation for each curve, slope line, existing property lines, proposed right of way lines, existing and proposed utility relocations and detours.
5. Profiles shall show roadway designations, structures, stationing, grades, existing ground, proposed ground, minimum vertical clearances, complete vertical curve information including K values, ramp take-offs superimposed on mainline, mainline superimposed at ramp nose, physical noses, and in loops, the adjacent ramp profiles superimposed in

concentric areas, superelevation, superelevation transitions, horizontal curve radii and the design speed. Profiles shall be at a scale of 1"=5' vertical and 1" = 50' horizontal.

6. Typical Sections are required for mainline roadways, ramps, local roads, access roads and any other roadway or parking lot areas. The sections shall include pavement make up, curb types, guard/guide rail treatment, grading criteria, sidewalks, medians, barrier, etc.
7. A completed boring contract and special soils treatment recommendation submitted for approval. See Section 5 (Geotechnical Engineering) of this Manual for additional details as well as "Pre-Phase A" requirements.
8. State, County and Municipal agency approval, in writing, as to concurrence with the concept for all affected roadways as to proposed construction, maintenance, protection of traffic, and intent as to participation in betterments.
9. The roadway plans shall show existing property lines and proposed right of way lines and method of setting right of way. The Authority's Project Manager shall be informed of any unique situations or problem areas once identified. Right-of-Way documents required shall be in accordance with Section 8 (Right-of-Way) of this Manual.
10. Conceptual lighting plans and supporting documents prepared in accordance with Section 7 (Lighting and Power Distribution Systems) of the Design Manual.
11. Conceptual ITS plans prepared in accordance with Section 8 (ITS and Communications) of the Design Manual.
12. Show the existing utilities and the proposed project in plan with the utility conflicts identified. See Section 7 (Utility Installations, Relocations and Adjustments) of this Manual for additional information.
13. For Contracts with bridge structures, 8½" x 11" structure sketches shall be submitted for review and approval as soon as the necessary information is available (prior to the Phase A submission). See Section 6B (Structures Plan Preparation) of this Manual for additional information on this submission.
14. Provide the Authority's Engineering Department with a written confirmation of the structural maintenance jurisdiction.
15. Noise Barrier Report prepared in accordance with Section 2 (Structures Design) of the Design Manual.
16. Toll Plaza buildings typically require an Architect and close coordination with the Engineer. A detailed written list of activities to be completed shall be submitted identifying responsibilities and who shall complete them. See Section 11 (Facility Buildings and Toll Plazas) of the Design Manual for more information.
17. Conceptual signing and striping layouts prepared in accordance with Sections 6A and 6B (Signing and Striping) of the Design Manual.
18. The layout of Maintenance Buildings shall be discussed with the Maintenance Division and recommendations are to be part of this

submission. See Section 11 (Facility Buildings and Toll Plazas) of the Design Manual for more information.

19. Alternatives studied in developing the recommended alignment shall be submitted in sufficient detail, including costs, maintenance and protection of traffic schemes and constructability issues, so that the reason(s) they are not being considered for further development are readily apparent. Alternatives suggested by the Authority's Engineering Department shall be studied by the Engineer in complete detail.
20. Environmental considerations shall be incorporated into the plans such as wetlands, contaminated or hazardous material, earth berms, walls, low profiles, glare/light pollution, water retention/infiltration basins and/or swales, etc. A summary of anticipated environmental permits shall also be provided. See Exhibit 3 - 6 for a sample table and Exhibit 3 - 7 for a partial listing of potential permits/approvals.

Unless already completed in conjunction with the Preliminary Design of the project, in accordance with Section 12 of the Design Manual, an Environmental Screening Report shall be provided with or prior to the Phase A submission. If applicable, an E.O. 215 Environmental document shall also be provided at this time.
21. Contract cost estimate (to the nearest \$100,000), any comparative cost estimates made in connection with alternative studies, approximate earthwork, indicating total yardage, and whether the project is a waste or borrow project.
22. Any changes in the previously submitted cost estimate or construction schedule are to be noted and the reason(s) given.
23. Conceptual construction sequence and schematics for maintenance and protection of traffic during construction for mainline roadways, ramps and local roads. Plans shall show existing and proposed roadways and shall include a brief explanation of construction sequence including any detours.
24. Completed Phase "A" checklist. See Exhibit 3 - 1 for a sample.

Exhibit 3 - 1 Phase "A" Checklist

Phase "A" Checklist

35 Percent Complete 1" = 30' or 1" = 50' Scale Plans

<u>SUBMISSION</u>	<u>SUBMISSION</u>	<u>REMARKS</u>
a. Six (6) Sets of All Material, with Three (3) Sets of Plans Colored and PDF Files		
b. Design Element Modification Request Form		
c. Completed Boring Contract and Special Soil Treatment Recommendations		
d. State, County and Municipal Approval in Writing		
e. Preliminary Right of Way Review		
f. Conceptual Lighting Plans and Supporting Documents		
g. Conceptual ITS Plans*		
h. Proposed Utility Conflicts*		
i. Structure Sketches*		
j. Structural Maintenance Jurisdiction Confirmed		
k. Noise Barrier Report*		
l. Toll Plaza Building Activity Summary*		
m. Conceptual Signing and Striping		
n. Maintenance Building Recommendations*		
o. Summary of Alternatives		
p. List of Environmental Permits / Approvals Anticipated		
q. Environmental Screening Report		
r. Cost Estimate		
s. Construction Sequence		

*IF APPLICABLE

3.4.3 Phase "B" Submission

The Phase "B" submission occurs for each construction contract at the stage of plan development when the horizontal and vertical alignment has been computed but the work has not progressed to the point of computing detailed quantities. These submission requirements may be modified by the Authority's Project Manager to account for project specific needs.

The following information is required at the time a Phase "B" submission is made:

1. Ten (10) half-size sets of printed plans without cross sections twelve (12) sets if the Contract includes a toll plaza), and one full-size set of plans

without cross sections along with a complete electronic submission in PDF format. Additional plans may be required for review by outside entities such as NJDOT, Counties or Municipalities.

2. Three (3) bound copies of the drainage calculations, geotechnical report, roadway lighting design calculations, and any other material deemed pertinent to the project as determined by the Authority's Engineering Department.
3. Complete computed horizontal and vertical alignment based upon the approved Phase "A" submission. This information is to be shown on the final plan sheets. See Section 6A (Plan Preparation) of this Manual for additional information.
4. Two half-size sets of Cross-sections at 50 foot intervals, or grading plans.
5. Final Typical Sections.
6. Maintenance and Protection of Traffic schematics, including a written description and a Traffic Impact Report, if applicable. Details of construction access to the work site shall be included. See Section 9 (Traffic Control During Construction) of the Design Manual for additional information.
7. Construction Sequence.
8. Detours, including written approval from local jurisdictions. ***For roadway closures of non-State highways not under Authority jurisdiction in excess of 48 hours, certification reports shall be submitted to the State in accordance with N.J.A.C.16:27-4.2(f), copies of which shall be provided to the Authority.***
9. Fencing and construction access treatment.
10. Complete drainage pattern with the major drainage sized. See Section 4 (Drainage) of the Design Manual for additional information.
11. Contract cost estimate (to the nearest \$100,000).
12. Approximate earthwork quantities together with any special soils treatment including the location and type of sand drains, muck excavation, contaminated or hazardous material, overload, etc.
13. Contract proposal items anticipated at this time, including non-standard items. The items shall be submitted in electronic format in accordance with the Authority's "Manual for Unit Codes".
14. List of Standard Drawings and Reference Drawings to be included.
15. Preliminary construction details.
16. 1" = 30' scale layouts and supporting calculations and documents of signing, ITS and lighting design in accordance with the requirements noted in Sections 6A and 6B (Signing and Striping) and Section 7 (Lighting and Power Distribution Systems) of the Design Manual. Include major sign structures and the lighting layout as detailed in Section 7.
17. Three (3) sets of prints of the approved reconstruction plan and one (1) copy of letter(s) of approval from affected agencies noting their

concurrence in the Engineers' recommendations. Scanned PDF files of the original plans shall be provided.

18. Structural Drawings and Non-Standard Bearing Report (if required) as noted in Section 6B (Structures Plan Preparation) of this Manual.
19. Landscaping drawings as noted in Section 10 (Landscaping) of the Design Manual.
20. Approved utility checklists and schemes with utility owners' preliminary cost estimates. See Section 7 (Utility Installations, Relocations and Adjustments) of this Manual for additional information.
21. Utility services to Authority facilities preliminarily established with utility suppliers.
22. A written description of the contract calling attention to any unusual problems, special treatments, or any area where a change would cause considerable revisions if altered at a future date.
23. Preliminary right of way plans, together with a list of parcels required for contract construction in accordance with Section 8 (Right-of-Way) of this Manual. Construction easements, temporary and permanent access roads and utility, drainage or slope easements shall be noted and a separate written statement included stating the reason for the easements and the proposed method of treatment. See Section 7 (Utility Installations, Relocations and Adjustments) and Section 8 (Right-of-Way) of this Manual for additional information. An incomplete submission must be accompanied by a statement listing the parcels not completed, why they are incomplete and when they will be submitted.
24. Flood Hazard Area, wetlands, soil erosion and all other environmental permit application(s) or navigation permit application forwarded to the Authority's Engineering Department. Completed summary of permit requirements, (see Exhibit 3-6 for a sample table and Exhibit 3-7 for a partial listing of permits).
25. Riparian grant applications forwarded to the Authority's Engineering Department.
26. Completed Phase "B" Checklist (see Exhibit 3-2 for a sample).
27. Phase "A" review material with responses to plan sheet comments either in writing or written in green on the plans, and written responses to all written comments.

Exhibit 3 - 2
Phase “B” Checklist

Phase “B” Checklist

70 Percent Complete Contract Documents

<u>SUBMISSION</u>	<u>SUBMISSION</u>	<u>REMARKS</u>
a. Ten (10) half-size Sets of Plans without cross sections Twelve (12) Sets if Contract Affects a Toll Plaza). One full-size Set of Plans, without cross sections and a complete set of PDF Files including cross sections.		
b. Three (3) Copies Drainage Calculations		
c. Three (3) Copies Geotechnical Report Noting Special Soils Treatment Including Location and Type of Sand Drains, Muck Excavation and Overload*		
d. Three (3) Copies Roadway Lighting Calculations		
e. Complete Computed Horizontal & Vertical Alignment		
f. Two half-size sets of Cross Sections at 50 Foot Intervals		
g. Final Typical Sections		
h. Maintenance and Protection of Traffic Schematics		
i. Construction Sequence		
j. Detours*		
k. Fencing and Construction Access Treatment*		
l. Complete Drainage Pattern with Major Drainage Sized		
m. Contract Cost Estimate		
n. Approximate Earthwork Quantities		
o. List of those Proposal Items for which the Unit Codes are known. To be submitted in accordance with the “Manual for Unit Codes”.		
p. List of those Proposal Items for which the Unit Codes are NOT known. To be submitted in accordance with the “Manual for Unit Codes”.		
q. List of Standard Drawings and Reference Drawings		
r. Preliminary Construction Details		
s. Signing Layouts		

<u>SUBMISSION</u>	<u>SUBMISSION</u>	<u>REMARKS</u>
t. Preliminary ITS Drawings		
u. Preliminary Lighting Plans, Calculations and Supporting Documents		
v. Three (3) Sets of Prints of the Plan and One (1) Copy of Letter(s) of Approval of Affected Local Agencies Noting Their Concurrence With the Engineer's Recommendations, and PDF Copies of the Plans*. <i>For roadway closures of non-State highways not under Authority jurisdiction in excess of 48 hours, copies of certification reports submitted to the State in accordance with N.J.A.C.16:2-4.2(f) shall be provided.</i>		
w. Structural Drawings and Non-Standard Bearing Report*		
x. Landscaping Drawings*		
y. Approved Utility Check Lists and Schemes and utility owners' preliminary cost estimates		
z. Utility Services to Authority Facilities*		
aa. Written Description of Contract Calling Attention to: <ol style="list-style-type: none"> 1. Unusual Problems* 2. Special Treatments* 3. Areas Where Change Would Cause Considerable Revisions* 		
bb. Approved Right of way Plans, Together with a List of Parcels Required		
cc. Environmental Permit Applications Forwarded to the Authority's Engineering Department, and a Summary of Permit Requirements*		
dd. Remedial Action Workplan* /		
Remedial Investigation Report* /		
Site Investigation Report*		
ee. Riparian Grant Application*		
ff. Phase "A" Review Material with Responses		

*IF APPLICABLE

3.4.4 Phase "C" Submission

3.4.4.1 Pre-Phase "C" Submission Requirements

The Pre-Phase "C" submission shall be submitted at least four (4) weeks prior to the Phase "C" submission deadline, unless otherwise

noted, to allow appropriate time to review and include all necessary changes in the Phase “C” submission.

The Pre-Phase “C” submission is to include:

1. Utility Orders forwarded to the Authority’s Engineering Department for execution.
2. Construction Railroad Data forms (see the Authority’s website for additional information) shall be completed by the Engineer and submitted to the Authority’s Engineering Department with the necessary plans and work description immediately after Phase “B” is approved. The Authority’s Engineering Department will transmit this information to the railroad, and upon its return from the railroad, notify the Engineer what insurance limits will be required in the contract specifications.
3. Final approvals in writing of State, County and Municipal agencies involved. ***This includes State approval of the submitted certification reports for roadway closures of non-state highways not under Authority jurisdiction in excess of 48 hours, per N.J.A.C.16:27-4.2(f).***
4. Utility service to Authority facilities finalized in accordance with Section 7 (Utility Installations, Relocations and Adjustments) of this Manual.
5. Agreements for jurisdiction and maintenance submitted in accordance with the requirements of Section 1 (Policies) of this Manual.
6. Pre-Phase “C” lighting and ITS submission in accordance with Section 7 (Lighting and Power Distribution Systems) and Section 8 (ITS and Communication Systems) of the Design Manual.
7. Initial submission to DCA, if applicable, in accordance with Section 11 (Facility Buildings/Toll Plazas) of the Design Manual.

3.4.4.2 Phase “C” Submission

A Phase “C” submission is a 95 percent complete contract consisting of plans, supplementary specifications, quantity calculations, Engineer’s Estimate, and other material deemed appropriate by the Authority’s Engineering Department. All items required for the construction, such as right of way, necessary permits and utility orders, have been completed.

The Phase “C” submission is to include:

1. Ten (10) half-size sets of printed plans without cross sections (twelve (12) sets if the contract includes a toll plaza), one full-size set of plans without cross sections, including quantities, pay items and final construction details, along with a complete electronic submission in PDF format. Additional plans may be required for review by outside entities such as NJDOT, Counties or Municipalities.

2. Five (5) sets of completed Supplementary Specifications prepared in accordance with the instructions on the Authority's website, along with a complete electronic submission in PDF format.
3. Two (2) half-size sets of cross sections at 50-foot intervals.
4. Two (2) sets of roadway and structure quantity calculations.
5. Proposed field office location if applicable, and method of access.
6. Utility service to Authority facilities finalized in accordance with Section 7 (Utility Installations, Relocations and Adjustments) of this Manual.
7. An Engineer's Estimate, without rounding or contingencies, showing any reimbursable items. Additionally, for Contract Classification determination, provide a breakdown of the Estimate into the following categories: Mobilization, Grading and Drainage, Paving, Bridge Structures, Electrical, Specialty Items, and MPT.
8. Three (3) copies of the Road User Cost calculations prepared in accordance with the Authority's "Road User Cost Manual and Calculation Model", as directed by the Authority's Project Manager.
9. Three (3) copies of the calculations to determine the dollar amount to charge for Liquidated Damages, as directed by the Authority's Project Manager.
10. Completed summary of permit status. See Exhibit 3-6 for a sample table and Exhibit 3-7 for partial listing of permits.
11. Three (3) copies of the Critical Path Method (CPM) Progress schedule for the Construction Activities. See Section 2 (OPS Reporting) of this Manual for additional information.
12. Completed Phase "C" Checklist (see Exhibit 3-3 for a sample.)
13. Phase "B" review material with responses to plan sheet comments either in writing or written in green on the plans, and written responses to all written comments.
14. Lighting and electrical calculations, if required. See Section 7 (Lighting and Power Distribution Systems) of the Design Manual.
15. Phase "C" Unit Code Electronic Submission developed in accordance with the "Manual for Unit Codes".
16. Completed LRFR load rating analyses calculations.
17. As indicated in the Supplementary Specification Section 107.11, submit to NJTA (attn.: Tony Valte) a CD labeled "Phase C" (DRAFT) with the list of reference documents and all reports, as-builts, contract drawings, permits and any other information to be made available during advertising.
18. Completed Highway Agency Stormwater General Permit Post-Construction Program Design Checklist for Individual Projects form.

19. Contract Specific Materials Acceptance Criteria Matrix.

Exhibit 3 – 3 (a)**Pre-Phase “C” and Phase “C” Checklist****Pre Phase “C” and Phase “C” Checklist**

95 Percent Complete Contract Documents

<u>1. PRE-PHASE “C” SUBMISSION</u>	<u>SUBMISSION</u>	<u>REMARKS</u>
a. Utility Orders Forwarded*		
b. Construction Railroad Data Forms*		
c. Final Approvals, in Writing, from Local Agencies*. <i>This includes State approval of the submitted certification reports for roadway closures of non-state highways not under Authority jurisdiction in excess of 48 hours, per N.J.A.C.16:27-4.2(f).</i>		
d. Final Utility Service to Authority Facilities*		
e. Agreements for Jurisdiction and Maintenance*		
f. Pre-Phase “C” Lighting and ITS Submission Submitted and Approved		
g. Initial submission to DCA*		

*IF APPLICABLE

Exhibit 3 – 3 (b)**Phase “C” Checklist****Phase “C” Checklist**

<u>2. PHASE “C” CHECKLIST</u>	<u>SUBMISSION</u>	<u>REMARKS</u>
a. Ten (10) Sets of half-size Contract Plans without cross sections. Twelve (12) Sets if Contract Affects a Toll Plaza), one full-size set without cross sections and a complete set of PDF Files		
b. Five (5) Sets of Supplementary Specifications and PDF Files		
c. Two (2) half-size sets of Cross Sections at 50 foot intervals		
d. Two (2) Sets of Roadway and Structure Quantity Calculations		

e. Field Office Location and Access*		
f. Utility Service to Authority Facilities Finalized		
g. Detailed Engineer's Estimate including breakdown		
h. Three (3) Copies Road User Cost Calculations		
i. Three (3) Copies Liquidated Damages Cost Evaluation		
j. Summary of Permit Requirements		
k. Remedial Action Selection Report*		
Remedial Action Workplan*		
l. Three (3) Copies Construction Schedule		
m. Phase "B" Review Material with Responses		
n. List of those Proposal Items for which the Unit Codes are known. To be submitted in accordance with the "Manual for Unit Codes".		
o. List of those Proposal Items for which the Unit Codes are NOT known. To be submitted in accordance with the "Manual for Unit Codes"*.		
p. List of approved light Standard Vendors as required in accordance with Design Manual Section 2.6		
q. Highway Agency Stormwater General Permit Post-Construction Program Design Checklist for Individual Projects form.		
r. Contract Specific Materials Acceptance Criteria Matrix		

*IF APPLICABLE

3.4.5 Phase "D" Submission

A Phase "D" submission is a 100 percent complete contract consisting of plans, supplementary specifications, Engineer's Estimate, and other material deemed appropriate by the Authority's Engineering Department.

The Phase "D" submission is to include:

1. One (1) complete set of signed original Mylar drawings. Mylars of Standard and Reference Drawings are not required.
2. One (1) CD labeled "Phase D Final (CADD Contract Deliverable)" containing all electronic files in accordance with the current NJTA CADD Manual entitled "NJTA, New Jersey Turnpike and Garden State Parkway Roadways CADD Standards Manual." This disk must be delivered to the CADD Section for inspection and archival procedures.
3. One (1) CD labeled "Phase D Final (Contracts Section Deliverable)" containing:

- a. The signed Plans as a multi-page PDF or ZIP of individual TIF files. The plans may be digitally stamped with a signature, or a scan of the original signed plans. The resolution of the plan set shall be a minimum of 300 DPI.
- b. The Supplementary Specifications in Microsoft Word format.
- c. The Phase D Electronic Submissions per the "Manual for Unit Codes."
- d. The Engineer's Estimate, including the latest breakdown as described in the Phase C requirements, in Excel format.
- e. All Reference Drawings and/or Reference Material listed in Supplementary Specification Subsection 102.04 shall be submitted according to these guidelines:
 - All files shall be compressed into a single ZIP file and named:
[Contract No.]_Reference.zip,
e.g. T100.256_Reference.zip.
 - If the files were provided by the Authority, the filenames shall not be altered. They should otherwise follow the file naming convention provided for in the CADD Standards Manual.
 - Within the ZIP file, the files may be organized into folders labeled with their corresponding Location (i.e., Str. No.).
4. Three (3) half-size bound sets of both the final plans (one (1) set sealed).
5. Two (2) bound copies of the final Supplementary Specifications.
6. Three (3) individually signed copies of the Engineer's Estimate prepared in accordance with Section 10 (Bidding Process) of this Manual.
7. Three (3) copies of the Critical Path Method (CPM) estimated construction schedule for the Construction Activities. See Section 2 (OPS Reporting) for additional information.
8. A completed "Fiber Optic Cable Design Review Certification Form", (see the Authority's website for additional information).
9. Phase "C" review material with responses to plan sheet comments either in writing or written in green on the plans, and written responses to all written comments.
10. Completed Phase "D" Checklist, See Exhibit 3-4 for a sample.
11. Three (3) hard copies and one (1) electronic copy of the Drainage Infrastructure Maintenance Plan, if required.

The letter of transmittal shall indicate status of utility orders, permits, right of way and any other requirements not fully met. When directed by the Authority's Engineering Department, additional sets of plans, as directed by

the Authority's Engineering Department, shall be sent to the County and/or Municipal Engineer for their information.

Exhibit 3 - 4
Phase "D" Checklist

Phase "D" Checklist

100 Percent Complete Contract Documents Revised in Accordance with Phase "C" Review Comments, and Ready for Advertisement

1. <u>SUBMISSION</u>	<u>SUBMISSION</u>	<u>REMARKS</u>
a. One (1) Set Original Mylar Drawings Signed. Standard and Reference Drawings NOT required.		
b. One (1) CD labeled "Phase D Final (CADD Contract Deliverable)" containing the files described in 3.4.5.		
c. One (1) CD labeled "Phase D Final (Contracts Section Deliverable)" containing the files described in 3.4.5.		
d. Three (3) half-size Sets of Prints (One (1) Set with Raised Seal on Each Sheet)		
e. Two (2) Bound Copies of Supplementary Specifications		
f. Three (3) Copies of Final Engineer's Estimates Individually Signed		
g. Three (3) Copies Estimated Construction Schedule		
h. Fiber Optic Cable Design Review Certificate		
i. Letter of Transmittal with Status of Utility Orders, Permits, ROW and any Requirements not Fully Met		
j. Phase "C" Review Material with Responses		
k. Drainage Infrastructure Maintenance Plan		
l. <i>Copies of resolutions of support from counties and/or local municipalities for any roadway closures of non-State highways not under Authority jurisdiction in excess of 48 hours.</i>		

3.4.6 Post Design Services

3.4.6.1 Evaluation of Bid Results

Within three (3) business days of a bid opening, a consultant shall review all the results and check them for any irregularities, such as an unbalanced bid. The Engineer shall then transmit a formal letter of recommendation as to the award of the contract to the Authority, and send a copy to the General Consultant. The General Consultant shall

review the Engineer's recommendation and either approve or disagree with the Engineer's recommendation.

3.4.6.2 Changes-of-Plan

If during the course of the construction the Resident Engineer determines that a formal change-of-plan is necessary, the Authority's Engineering Department will direct the Engineer to prepare it. The procedures for preparing a change-of-plan are located in Section 9 (Addenda and Changes of Plan) of this Manual. To prevent costly construction delays, the Engineer shall expeditiously prepare a change-of-plan, as directed by the Authority's Engineering Department.

3.4.6.3 Shop Drawing Review

During the course of construction, the Resident Engineer (Construction Manager or CM) will forward to the Design Engineer (DE), shop drawings and working drawings for review and approval. The DE shall review and return all shop drawings and working drawings to the CM or the Authority, as appropriate, in accordance with Subsection 104.08 of the Specifications and the below provisions. When estimating the level of effort required to perform post-design and construction management services, the DE and CM shall assume that the level of shop drawing and working drawing review, outlined in the below provisions, will be included in their respective scopes of service.

- The DE shall review and approve all required shop drawings for permanent features designed by the DE, which are represented within the Contract Documents. Shop drawings are documents furnished by suppliers and/or manufacturers of various materials and equipment, which illustrate how specific portions of the works shall be fabricated. Review of shop drawings is for general compliance with the Contract documents. All reviewed shop drawings shall be stamped by the DE using Stamp A shown in Exhibit 3-8.
- The DE shall review and recommend for approval shop drawings and working drawings for permanent features designed by the Contractor, including supporting calculations, which include proprietary design elements which have been provided by the Contractor or the Contractor's vendors including (but not limited to) Mechanically Stabilized Earth (MSE) walls, High Load Multi-Rotational (HLMR) bearings, and modular bridge joint systems. Review of these shop and working drawings is for general conformance with the design concepts and criteria represented within the Contract documents. All reviewed shop and/or working drawings shall be stamped by the DE using Stamp B shown in Exhibit 3-8. Submissions stamped as "Recommended for Approval" shall be returned to the Authority for approval by the Office of the Chief Engineer of the New Jersey Turnpike Authority. Where the Office of the Chief Engineer deems the submitted shop and/or working drawings acceptable, they

will be stamped as 'Approved' by an authorized representative of the Chief Engineer using Stamp C as shown in Exhibit 3-8. Approved shop and/or working drawings will then be returned to the CM by the Office of the Chief Engineer for final distribution to the Contractor. Shop and /or working drawings, which are not approved by the Office of the Chief Engineer, will be returned to the DE for further review.

- The DE shall also review and recommend for approval all shop and/or working drawings, including supporting calculations, for items of work that were presented in the Contract documents as "conceptual", including temporary works for which the Contractor is required to complete the final design, erection plans, and demolition plans. These shop and/or working drawings, including supporting calculations, must be reviewed to a level where the DE has taken no exceptions to the drawings and supporting calculations before they can be stamped "Recommended for Approval" using Stamp B shown in Exhibit 3-8. Submissions stamped as "Recommended for Approval" shall be returned to the Authority for approval by the Office of the Chief Engineer of the New Jersey Turnpike Authority. Where the Office of the Chief Engineer deems the submitted shop and/or working drawings acceptable, they will be stamped as 'Approved' by an authorized representative of the Chief Engineer using Stamp C as shown in Exhibit 3-8. Approved shop and/or working drawings will then be returned to the CM by the Office of the Chief Engineer for final distribution to the Contractor. Shop and /or working drawings, which are not approved by the Office of the Chief Engineer, will be returned to the DE for further review.

- The CM will review and approve Contractor submissions in accordance with a Project Specific Materials Acceptance Review Matrix, which will be developed by the DE during Design and provided to the CM for review and acceptance prior to the Pre-Construction meeting for the contract. The CM will also be responsible for review and approval of shop drawings for all items, which are covered by Authority Standard drawings and do not require explicit design on the part of the contractor. All reviewed shop drawings shall be stamped by the CM using Stamp A shown in Exhibit 3-8.

- A sample matrix of DE and CM responsibilities for review of Contractor Submissions has been prepared as the Materials Acceptance Criteria Matrix (Matrix) as shown in Exhibit 3-9. An electronic spreadsheet version of the Matrix (Exhibit 3-9) will be furnished to the DE by the Authority Project Engineer as part of the Project Design kick-off meeting. This matrix is provided as an example and shall be modified by the DE as appropriate based on specific contract requirements and provided with the Design Phase C submission. This Matrix shall be made available for the scoping and procurement of CM services. A Pre-construction handoff meeting shall be scheduled between the DE and CM to review the design aspects of the project and finalize the Matrix. The Matrix will be updated by the DE and provided to the CM prior to the Pre-Construction meeting for

the contract. For the purposes of clarity, the 'Reviewer' shown in the matrix is the party responsible (CM or DE) for review of Contractor submitted materials. Where 'CM/DE' is shown, the Construction Manager shall bear primary responsibility for review of these Contractor submitted materials with assistance and additional review provided by the DE as required for specialty or unusual work features. Where 'DE/CM' is shown, the Design Engineer shall bear primary responsibility for review of these Contractor submitted materials with assistance and additional review provided by the CM as required for features where complex or unusual field performed procedures are to be executed. In any event, where both CM and DE parties are shown in the 'Reviewer' column, both parties shall review the Contractor submitted materials.

3.4.6.4 Requests for Information

During the course of construction, the Resident Engineer may forward to the Engineer a Request for Information (RFI). To prevent costly construction delays, the Engineer shall expeditiously prepare a response to the Resident's question.

3.4.6.5 As-Built Plans

The preparation of As-built plans shall be the responsibility of the Resident Engineer. The Phase "D" submission to the Authority's Engineering Department includes the drawings in individual PDF Files with signature and MicroStation Format, which will be forwarded to the Resident. If necessary, the NJTA Engineer shall forward any changes-of-plan in PDF and MicroStation Format that may have occurred during the course of construction to the Resident Engineer.

As contracts are ready to be finalized for As-built revisions, the Original Title Sheet Mylar with the Design Engineer and Chief Engineer's signatures and a CD of Electronic Files in PDF and MicroStation Format will be transmitted to the Resident Engineer. This can be picked-up at the Authority's reception desk in the lobby when available.

Submission of Final As-built Mylar Drawings and corresponding Electronic Files shall be delivered to Tony Valte, Assistant Project Supervisor with a transmittal containing the following enclosures:

1. One (1) Set of **Final** As-Built Mylar Drawings sized at 22" X 36" **and shall contain the following:**
 - a.) Title Sheet must be the Original Title Sheet as provided with the Design Engineer and Chief Engineer's signature.
 - b.) Title Sheet must be dated and Stamped "AS-BUILT," signed and dated by the Resident Engineer. The Resident Engineer's Certification Stamp shall state: "I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THIS CONTRACT HAS BEEN CONSTRUCTED

IN CONFORMITY WITH THE ORIGINAL PLANS, SPECIFICATIONS AND MODIFICATIONS, AS IDENTIFIED HEREIN AS-BUILT.”

- c.) All other sheets must be stamped “AS-BUILT” on top of the TITLE BLOCK or REVISION BOX. Note: The text “AS-BUILT” shall be shown with a bold face font at a one-half inch text height on the Title Sheet above the signatures and above all Title Blocks on all other drawings.
 - d.) The REVISION BOX must have the following information:
 - 1st Column (REV.) – shall denote a number inside a triangle to indicate the number of times the sheet was revised.
 - 2nd Column (DESCRIPTION) – shall denote either “ADDENDUM NO.” “COP NO.” or “AS-BUILT”
 - 3rd Column (DATE) – shall denote date ADDENDUM, COP OR “AS-BUILT” of sheet completed.
 - 4th Column (BY) – shall denote initials of DRAFTER.
 - 5th Column (CHK) – shall denote initials of Resident Engineer.
2. One (1) CD of Individual and combined Electronic Files in PDF Version with all required signatures and MicroStation Format. Electronic Files shall contain the same information above.
 3. One (1) half-size bound set of As-Built prints and shall contain the same information above.

3.4.6.6 Lighting System

After the lighting system has been constructed, the Engineer shall perform a verification of the lighting installation, to ensure that the lighting has been installed according to the approved design. This procedure is outlined in Section 7 (Lighting and Power Distribution Systems) of the Design Manual, and will be required before the Authority’s Engineering Department issues final acceptance for any lighting system.

Exhibit 3 - 5
Design Element Modification Request

CONTRACT NO. _____

PHASE _____

DATE _____

DESIGN ELEMENT	DESIGN CRITERIA			APPROXIMATE COST	
	DESIRABLE	MINIMUM	PROPOSED	DESIRABLE	PROPOSED
RAMP RADIUS	235'	150'	180'	\$1,250,000	\$250,000

* PROVIDE GENERAL LAYOUT SKETCH(S) OR CORRESPONDENCE AS APPROPRIATE

IMPACTS/REASONS:

Providing the desirable radius requires the total acquisition of a small commercial property. Reducing the radius eliminates the total acquisition and only requires a slope easement.

Summary of Permit Requirements

CONTRACT NO. _____

PHASE _____

DATE _____

MAY 2007

Exhibit 3 - 7 Environmental Permits

FEDERAL

U.S. Coast Guard (Bridge)
USCOE Section 404 (Individual/Nationwide) discharge of fill
USCOE Section 10 (Navigable Waters)
Section 7 (Endangered Species Consultation)

STATE

Coastal Area Facility Review Act
Hazardous Waste Site Investigation
NJDEP Tidal Wetlands
NJDEP Waterfront Development
NJDEP Tidal Conveyance
NJDEP Freshwater Wetlands
NJDEP Flood Hazard/Riparian
NJDEP Water Quality Certificate

OTHERS

Delaware Basin Commission
Meadowland Commission
Pineland Commission
Historic Sites Council
Green Acres/State House Commission
NJ No Net Loss Reforestation Act
State Agricultural Development Commission

Exhibit 3 - 8 Shop and Working Drawing Stamps

Stamp A

SHOP DRAWING REVIEW CONSULTANT NAME	
<p>Review is for general compliance with contract documents. sole responsibility for correctness of dimensions, details, quantities, and safety during fabrication and erection shall remain with the Contractor.</p> <p> <input type="checkbox"/> No Exceptions Taken <input type="checkbox"/> Make Corrections Noted <input type="checkbox"/> Amend and Resubmit <input type="checkbox"/> Rejected </p> <div style="text-align: right; margin-top: 10px;"> By _____ Date _____ </div>	

Stamp B

<p>The Engineer, in accordance with NJTA standards, has reviewed this submission, which the Contractor has developed as the final design of conceptual plans as shown or required in the Contract Documents, or temporary works required to perform the Work described or as required in the Contract Documents, for general compliance with the design concept and criteria.</p> <p style="text-align: center;">RECOMMENDED FOR APPROVAL</p> <p>Date _____</p> <p>By _____</p> <p style="margin-top: 20px;">This does not relieve the Contractor from compliance with the requirements of the Contract Documents.</p>

Stamp C

APPROVED
By _____ Date _____
Office of The Chief Engineer

Exhibit 3 - 9
Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Conformance	Other Conformance	Shop Drawings	Mix Design	QC Plan	Mill Certifications	Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
1D01HDS	Historic District Sign	Each	Historic District Sign											CM	
1D01LAY	Construction Layout	LS	Control of Work											CM	36
1D10MOB	Mobilization	LS	Control of Work											CM	37
1G01SCH	Progress Schedule (This is a no Bid Item)	LS	Prosecution and Progress											CM	74
1HFPXXX	Fuel Price Adjustment (This is a NO BID, Lump Sum item for this contract. The Lump Sum price is \$XXX,000. Enter a Unit Price of \$XXX,000 as your bid item for this item.)	L.S.	Price Adjustment											CM	SS
2A01CAG	Clearing and Grubbing	ACRE	Clearing & Grubbing			x								CM	95, 763
2A06CAG	Sealing of Abandoned Well	Each	Sealing of Abandoned Well											CM	SS
2A08CAG	Monitoring Well	Each	Monitoring Well			x								CM	SS
2B00001	Basin and Swale Excavation	C.Y.	Basin and Swale Excavation											CM	SS
2B02REX	Roadway Excavation, Earth	C.Y.	Roadway Excavation		x							x	x	CM	101
2B04REX	Roadway Excavation and Embankment	C.Y.	Roadway Excavation		x							x	x	CM	101
2B05REX	Roadway Excavation, Muck	C.Y.	Roadway Excavation		x							x	x	CM	101
2B15STS	Stripping Topsoil	C.Y.	Roadway Excavation									x	x	CM	101
2B20OVR	Overload Removal	C.Y.	Roadway Excavation		x							x	x	CM	101
2C00001	Deep Benchmarks	L.F.	Deep Benchmarks											CM	
2C00002	Open Standpipe Piezometers	Each	Piezometers											CM	
2C00005	Clay Liner	C.Y.	Embankment	x		x		x				x		CM	SS
2C00006	Vertical Wick Drain Obstruction Clearance	L.F.	Embankment	x		x		x						CM	SS
2C00007	Sand Blanket	C.Y.	Embankment	x		x		x				x		CM	SS
2C00008	#57 Stone Backfill	C.Y.	Embankment	x		x		x				x	x	CM	SS
2C00011	Geofoam Backfill	C.Y.	Embankment	x		x		x				x	x	CM	SS
2C00012	Geosynthetic Clay Liner	S.Y.	Embankment	x		x		x				x	x	CM	SS
2C01EMB	Embankment, Common	C.Y.	Embankment		x			x				x	x	CM	108
2C02EMB	Embankment, Grade A	C.Y.	Embankment	x		x		x				x	x	CM	105, 626
2C03EMB	Embankment, Grade B	C.Y.	Embankment	x		x		x				x	x	CM	SS
2C04EMB	Porous Fill	C.Y.	Embankment	x	x	x		x				x	x	CM	103
2C07EMB	Embankment, Grade C	C.Y.	Embankment	x		x		x				x	x	CM	SS
2D00001	Cofferdam	L.S.	Cofferdam					x						DE	SS
2D01CEX	Channel Excavation	C.Y.	Channel Excavation					x						CM	SS
2E01CAL	Coarse Aggregate Layer	C.Y.	Foundation Excavation	x		x								CM	113
2E01FEX	Foundation Excavation	C.Y.	Foundation Excavation			x								CM	113
2F01TEX	Trench Excavation, Extra Depth	C.Y.	Trench Excavation	x	x	x		x					x	CM	SS
2F04TEX	Trench Excavation, Electrical	L.F.	Trench Excavation	x	x	x		x					x	CM	SS
2G00001	Riprap and Scour Holes	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00002	Riprap Stone Slope Protection, 12" Thick, (D50=6")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00005	Riprap Stone Aprons, 18" Thick, (D50=9")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00008	Riprap Stone Ditch Protection, 18" Thick (D50=6")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00009	Gabions	C.Y.	Stone for Erosion Control	x	x	x							x	CM	SS
2G00010	Gabion Mattress Slope Protection, 12" Thick	C.Y.	Stone for Erosion Control	x	x	x							x	CM	SS
2G00011	Gabion Mattress Ditch Protection, 12" Thick	C.Y.	Stone for Erosion Control	x	x	x							x	CM	SS
2G00016	Riprap Stone Slope Protection, 24" Thick (D50=12")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00021	Riprap Stone Slope Protection, 24" Thick (D50=8")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00022	Riprap Stone Scour Hole, 12" Thick, D50=6"	Ton	Stone for Erosion Control	x	x	x							x	CM	120

Exhibit 3 - 9

Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Conformance	Other Conformance	Shop Drawings	Mix Design	QC Plan	Mill Certifications	Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
2G00024	Gabion Mattress Ditch Protection, 18" Thick	C.Y.	Stone for Erosion Control											CM	
2G00025	Riprap Stone Ditch Protection, 18" Thick, D50=9"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00027	Sand Layer, 6" Thick	S.Y.	Stone for Erosion Control											CM	
2G00028	Riprap Stone Aprons, 36" Thick, D50=18"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00029	Riprap Stone Aprons, 48" Thick, D50=24"	Ton	Stone for Erosion Control	x	x	x							x	CM	SS
2G00030	Gabion Mattress Ditch Protection, 24" Thick	C.Y.	Stone for Erosion Control	x	x	x							x	CM	SS
2G00031	Riprap Stone Ditch Protection, 24" Thick, D50=12"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00032	Riprap Stone Slope Protection, 18" Thick, (D50=5")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00033	Riprap Stone Scour Hole, 18" Thick, D50=9"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00034	Riprap Stone Scour Hole, 24" Thick, D50=12"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G00036	Gabion Mattress Scour Hole, 24" Thick	C.Y.	Stone for Erosion Control	x	x	x							x	CM	
2G00037	Riprap Stone Scour Hole, 36" Thick, D50=18"	Ton	Stone for Erosion Control	x	x	x							x	CM	SS
2G00038	Gabion Mattress 9' x 6' x 9'	Ton	Stone for Erosion Control	x	x	x							x	CM	SS
2G02SEC	Stone, Grade B	Ton	Stone for Erosion Control	x	x	x							x	CM	
2G04SEC	Stone, Grade D	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G10SEC	Filter Blanket	Ton	Stone for Erosion Control	x	x	x							x	CM	SS
2G12A06	Riprap Stone Aprons, 12" Thick (D50=6")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G12A08	Riprap Stone Aprons, 24" Thick (D50=12")	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G12D07	Riprap Stone Ditch Protection, 12" Thick, D50=6"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2G16A01	Riprap Stone Aprons, 16" Thick, D50=8"	Ton	Stone for Erosion Control	x	x	x							x	CM	120
2H00001	Temporary Slope Drain	L.F.	Temp Soil Erosion & Dust Control	x				x					x	CM	SS
2H00004	15" Temporary Slope Drain	L.F.	Temp Soil Erosion & Dust Control	x				x					x	CM	SS
2H00005	18" Temporary Slope Drain	L.F.	Temp Soil Erosion & Dust Control	x				x					x	CM	SS
2H00006	Heavy Duty Silt Fence, Orange	LF	Temp Soil Erosion & Dust Control	x		x							x	CM	126
2H00007	Heavy Duty Silt Fence, Black	LF	Temp Soil Erosion & Dust Control	x		x							x	CM	126
2H00008	Storm Sewer Inlet Protection	Each	Temp Soil Erosion & Dust Control	x	x	x		x					x	CM	SS
2H00009	Sediment Containment Bags	Each	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00010	Concrete Driveway, 6" Thick	S.Y.	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00011	Turf Reinforcement Matting	S.Y.	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00013	Stone Deck Dam	C.Y.	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00014	Floating Sediment Risers	Each	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00015	Inlet Filter, Type 1	S.Y.	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00016	Inlet Filter, Type 2	Each	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H00018	Sediment Control Bags	Each	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H01DSC	Temporary Seeding	S.Y.	Temp Soil Erosion & Dust Control	x		x		x					x	CM	SS
2H05DSC	Watering	Thous	Temp Soil Erosion & Dust Control	x			x						x	CM	SS
2H21TEC	Temporary Stone, Grade B	Ton	Temp Soil Erosion & Dust Control	x		x							x	CM	631
2H25TEC	Hay Bales	C.Y.	Temp Soil Erosion & Dust Control	x		x							x	CM	122
2H30TEC	Silt Fence	L.F.	Temp Soil Erosion & Dust Control	x		x							x	CM	SS
2H35TEC	Floating Turbidity Barriers	LF	Temp Soil Erosion & Dust Control	x		x							x	CM	SS
2H40TEC	Inlet Filters	Each	Temp Soil Erosion & Dust Control	x		x							x	CM	126
2H45TEC	Construction Driveway	Ton	Temp Soil Erosion & Dust Control	x		x							x	CM	SS
2J01DES	Demolition of Existing Structures	LS	Demolition of Existing Structures					x						DE	129
2J10DES	Demolition of Existing Toll Plaza	LS	Demolition of Existing Structures					x						DE	129
2K01TPF	Temporary Orange Plastic Fence	L.F.	Tem.Orange Plastic Fence			x						x		CM	SS
2L01SBB	Subbase	CY	Subbase	x	x	x							x	CM	SS

Exhibit 3 - 9

Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Conformance	Other Conformance	Shop Drawings	Mix Design	QC Plan	Mill Certifications	Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
2L02SSC	Sawcutting	LF	Sawcutting	x	x	x							x	CM	SS
2M00001	Stone Columns	LF	Stone Columns				x	x		x			x	DE	SS
2M00002	Pre-Drilling	LF	Pre-Drilling				x	x		x			x	CM/DE	SS
2M00003	Vibration and Movement Monitoring	L.S.	Vibration and Movement Monitoring				x	x		x			x	DE/CM	SS
2M00004	Reno Mattress (Gabion Basket)	C.Y.	Reno Mattress (Gabion Basket)				x	x		x			x	CM	SS
2M00006	Excavation, Acid Producing Soil	CY	Excavation, Acid Producing Soil				x	x		x			x	CM	SS
2M00007	Acid-Producing Soils Remediation	SY	Acid-Producing Soils Remediation				x	x		x			x	CM	SS
2M00008	Disposal of Acid Producing Soil	Ton	Disposal of Acid Producing Soil				x	x		x			x	CM	SS
2M00009	Testing for Acid Producing Soil Deposits	Each	Testing for Acid Producing Soil Deposits				x	x		x			x	CM	SS
2M00010	Foundation Excavation for Acid Producing Soils	C.Y.	Foundation Excavation for Acid Producing Soils				x	x		x			x	CM	SS
2M00011	Testing of Soils for Waste Classification	Each	Testing of Soils for Waste Classification				x	x		x			x	CM	SS
2N00002	Geotechnical Instrumentation Monitoring	Week	Geotechnical Instrumentation Monitoring				x			x				CM	SS
2N00006	Vibrating Wire Piezometers	Each	Piezometers				x			x				CM	SS
2N00007	Trench Excavation, Cut-Off Wall	S.F.	Trench Excavation, Cut-Off Wall				x			x				CM	SS
2N00008	Exploratory Test Pits	Each	Exploratory Test Pits				x			x				CM	SS
2O00006	Tile Drain Plugging	Each	Tile Drain Plugging				x			x				CM	SS
2O00007	Tile Drain Exploration	L.F.	Tile Drain Exploration				x			x				CM	SS
2P00001	Demolition of Building Lot # X	LS	Demolition of Buildings					x		x				DE	SS
2P00004	Asbestos Abatement# X	LS	Asbestos Abatement					x		x				DE	SS
2P00010	Demolition of Building Lot # X	LS	Demolition of Buildings					x		x				DE	SS
3A00001	Aggregate Base Course, 7" Thick	SY	Aggregate Base Course	x	x	x							x	CM	133-135
3B01ABC	Asphaltic Base Course 25H64	Ton	HMA Pavements	x	x	x				x	x		x	CM	SS
3B01AIC	Asphaltic Intermediate Course 19H76	Ton	HMA Pavements	x	x	x				x	x		x	CM	SS
3B01ASC	Asphaltic Surface Course 12.5H76	Ton	HMA Pavements	x	x	x				x	x		x	CM	SS
3B03HMA	HMA Surface Course, Mix I-5	Ton	HMA Pavements	x	x	x				x	x		x	CM	SS
3B14HMA	Hot Mix Asphalt Driveway, 6" Thick	S.Y.	HMA Pavements	x	x	x				x	x		x	CM	SS
3B15HMA	Hot Mix Asphalt, Driveway, 4" Thick	S.Y.	HMA Pavements	x	x	x				x	x		x	CM	SS
3B16HMA	Hot Mix Asphalt, Driveway, 12" Thick	S.Y.	HMA Pavements	x	x	x				x	x		x	CM	SS
3B21HMA	HMA Base Course, Mix I-2	Ton	HMA Pavements	x	x	x				x	x		x	CM	SS
3B21SUP	Superpave Hot Mix Asphalt 25H 64 Base Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B23SUP	Superpave Hot Mix Asphalt 19M 64 Base Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B24SUP	Superpave Hot Mix Asphalt 19H 76 Intermediate Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B250APA	Asphalt Price Adjustment. (This is a NO-BID, Lump Sum item for this contract. The	Ton	Asphalt Price Adjustment (This is a No-Bid Item)											CM	176
3B25SUP	Superpave Hot Mix Asphalt 12.5H 76 Surface Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B26TAC	Tack Coat	Gallon	HMA Pavements	x	x								x	CM	135-178
3B31SUP	Superpave Hot Mix Asphalt 12.5M64 Surface Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B31CLS	Clean Outside Shoulders	L.F.	Clean Outside Shoulders	x	x								x	CM	SS
3B33SUP	Superpave Hot Mix Asphalt 19H 64 Intermediate Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B34SUP	Superpave Hot Mix Asphalt 25H 64 Base Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B35SUP	Superpave Hot Mix Asphalt 9.5M 64 Surface Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B36SUP	Superpave Hot Mix Asphalt 19M76 Base Course	Ton	HMA Pavements	x	x	x				x	x		x	CM	SS
3B41ABS	HMA Bridge Surfacing	Ton	HMA Pavements	x	x	x				x	x		x	CM	135-178
3B42ASB	Membrane Waterproofing	SY	HMA Pavements	x	x								x	CM	135-178
3B450APA	Asphalt Price Adjustment (This is a NO-BID, Lump Sum item for this contract. The	L.S.	HMA Pavements	x	x								x	CM	176
3C01BRS	Berm Surfacing, 3 inches Thick	SY	Shoulder & Berm Surfacing	x	x								x	CM	179

Exhibit 3 - 9
Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Performance Other	Conformance	Shop Drawings	Mix Design	QC Plan	Mill Certifications	Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
3C02BRS	Berm Surfacing, Crushed Stone, 6" Thick	SY	Shoulder & Berm Surfacing	x		x							x	CM	179
3D00001	Concrete Base Course, 8" Thick	S.Y.	Portland Cement Conc Pavement	x	x	x		x	x	x	x		x	CM	SS
3D01UPR	Underlayer Preparation	S.Y.		x	x	x		x	x	x	x		x	CM	SS
3D05APS	Bridge Approach Slab	S.Y.	Portland Cement Conc Pavement	x	x	x		x	x	x	x		x	CM	179-206
3E07PMR	Pavement Removal, 2" Depth	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E11PMR	Pavement Removal, 3" Depth	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E14PMR	Pavement Removal, 5" Depth	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E15PMR	Pavement Removal, 4" Depth	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E20PMR	Pavement Removal, Variable Depth	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E40PMR	Surface Milling	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E50PMR	Surface Milling, 2" Average Depth	S.Y.	Pavement Removal & Surface Milling				x							CM	208
3E52PMR	Surface Milling, 3" Average Depth	SY	Pavement Removal & Surface Milling				x							CM	208
3F01MRS	Milled Rumble Strip	LF	Milled Rumble Strip				x							CM	209
4A00004	Concrete Collar	Each	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A00005	Concrete In Culvert	CY	Concrete Structures	x	x	x		x	x	x			x	CM	221-274
4A00006	Precast Reinforced Concrete 3-Sided Box Culvert	LF	Concrete Structures	x		x		x	x	x	x		x	DE	221-274
4A00009	Pier Protection Barrier	LF	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A00014	Concrete In Pylon Wall	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A00017	Concrete In Pile Cap	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A00018	Concrete In Wingwalls	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A00019	Modular Expansion Joint, 6" Movement	L.F.	Concrete Structures		x		x						x	DE	SS
4A00024	Strip Seal Expansion Joints, 2" Movement	L.F.	Concrete Structures		x		x						x	CM	SS
4A00025	Neoprene Strip Seal	L.F.	Concrete Structures		x		x						x	CM	SS
4A00026	Jeene Seal Expansion Joints, 2" Movement	L.F.	Concrete Structures		x		x						x	CM	SS
4A00027	Concrete In Wall Facing	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A00028	Concrete In Barriers	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A01CCC	Concrete in CIP Collar	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A01CCS	Concrete Core Sampling	Each	Concrete Structures		x		x						x	CM	SS
4A01CSH	Concrete in Structure, Headwalls	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A01SEJ	Strip Seal Expansion Joint	L.F.	Concrete Structures											CM	
4A01STC	Concrete In Substructure Above Footings	CY	Concrete Structures	x	x	x		x	x	x			x	CM	221-274
4A04STC	Concrete In Footings	CY	Concrete Structures	x	x	x		x	x	x			x	CM	221-274
4A09STC	Concrete in Backwall	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A10AAF	Concrete in Abutment Above Footings	C.Y.	Concrete Structures											CM	
4A10COP	Concrete in Coping	C.Y.	Concrete Structures	x	x	x		x	x	x			x	CM	SS
4A10PAF	Concrete in Pier Above Footings	C.Y.	Concrete Structures											CM	
4A10RFS	Reinforcement Steel	Pound	Concrete Structures	x		x		x	x	x	x		x	DE	221-274
4A10RWF	Concrete in Retaining Walls Above Footings	C.Y.	Concrete Structures											CM/DE	
4A10STC	Concrete In Bridge Parapet	CY	Concrete Structures	x	x	x		x	x	x			x	CM/DE	221-274
4A11STC	Concrete In Deck Slabs	C.Y.	Concrete Structures											CM	
4A11RFS	Reinforcement Steel, Epoxy Coated	Pound	Concrete Structures	x		x		x	x	x	x		x	DE	221-274
4A12RBC	Reinforcement Bar Coupler	Each	Concrete Structures	x		x		x	x	x	x		x	CM	SS
4A15DGR	Drill and Grout Reinforcement Bar	Each	Concrete Structures	x		x		x	x	x	x		x	CM	221-274
4A40RFS	Mechanical Coupler	Each	Concrete Structures	x		x		x					x	CM	SS
4A55CPS	Concrete Penetrating Sealer Treatment	SF	Concrete Structures	x	x	x							x	CM	274
4B01PCB	Presstressed Concrete Beams, Type VI	L.F.	Presstressed Concrete Beams, Type VI			x							x	DE	SS

Exhibit 3 - 9

Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Conformance	Other Conformance	Shop Drawings	Mix Design	QC Plan	Mill Certifications	Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
4B00006	Prestressed Concrete Bulb Tee Beams, 55 Inches Deep	L.F.	Prestressed Concrete Bulb Tee Beams, 55 Inches			x						x		DE	SS
4B00007	Prestressed Concrete Adjacent Box Beams, 27" X 48"	L.F.	Prestressed Concrete Adjacent Box Beams, 27" X 48"			x						x		DE	SS
4C01HMR	HLMR Bearings, 200 Kips to 450 Kips, Type E	Each	Steel Structures			x		x		x	x	x		DE	284-296
4C01SSC	Shear Connectors	Each	Steel Structures			x		x		x	x	x		DE	284-296
4C05SSL	Structural Steel	L.S.	Steel Structures			x		x		x	x	x		DE	SS
4C15SDJ	Structural Steel Deck Joints	L.S.	Steel Structures			x		x		x	x	x		DE	284-296
4D10TTS	Treated Timber Structures	MFBM	Timber Structures			x		x					x	DE	SS
4E00011	HP 12 X 53 Test Piles	L.F.	Piles	x	x	x	x	x		x			x	DE	301-315
4E00015	Driving HP 14 X 89 Piles	L.F.	Piles		x			x		x		x		DE	301-315
4E00016	Steel HP 14 X 89 Test Piles	L.F.	Piles	x	x	x	x	x		x			x	DE	301-315
4E00017	Splices For Steel Hp 14 X 89 Piles	Each	Piles	x		x	x	x				x	x	DE	301-315
4E00019	Furnishing HP 14 X 89 Piles	L.F.	Piles	x		x	x	x		x			x	DE	301-315
4E00026	14 Inch Diameter Steel Pipe Test Piles	LF	Piles	x		x	x	x		x			x	DE	301-315
4E00027	Point Reinforcement For 14 Inch Diameter Steel Pipe Piles	Each	Piles	x		x	x	x		x			x	DE	301-315
4E00028	Splices For 14 Inch Diameter Steel Pipe Piles	Each	Piles	x		x	x	x		x			x	DE	301-315
4E00029	Splices For Steel Hp 12 X 53 Piles	Each	Piles	x		x	x	x				x	x	DE	301-315
4E00030	Furnishing 14" Diameter Steel Pipe Piles	LF	Piles			x	x	x		x			x	DE	301-315
4E00031	Driving 14" Diameter Steel Pipe Piles	LF	Piles		x			x		x		x		DE	301-315
4E00051	Driving 16" Cast-In-Place Concrete Piles	L.F.	Piles		x			x		x		x		DE	301-315
4E00053	Splices for 16" Cast-In-Place Concrete Piles	Each	Piles	x		x	x	x				x	x	DE	301-315
4E00054	Furnishing 16" Cast-In-Place Concrete Piles	L.F.	Piles	x		x	x	x		x			x	DE	301-315
4E00058	16" Cast-in-Place Concrete Test Piles	L.F.	Piles	x	x	x	x	x		x			x	DE	301-315
4E01EDP	Furnishing Equipment for Driving Piles	LS	Piles	x			x	x		x			x	DE	301-315
4E01FIP	Furnishing and Installing W18 x 86 Piles	LS	Piles	x		x	x	x		x			x	DE	SS
4E01PLT	Dynamic Pile Load Tests	Each	Piles				x	x						DE	308
4E01PPC	Protective Pile Coating	L.F.	Piles	x		x						x	x	DE	SS
4E30SPC	30" Diameter Steel Pipe Casing	L.F.	Piles	x	x	x	x	x		x			x	DE	SS
4F00008	Remove Existing Span Sign Structure No.	LS	Sign Support Structures		x			x		x				CM/DE	315-328
4F00009	Fabrication and Delivery of Overhead Butterfly/Cantilever Sign Support Structure Post	Pound	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F00010	Fabrication and Delivery of Overhead Butterfly/Cantilever Sign Support Structure Truss	Pound	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F00011	Fabrication and Delivery of Overhead Span Sign Support Structure End Frame	Pound	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F00012	Fabrication and Delivery of Overhead Span Sign Support Structure Truss	Pound	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F00018	Concrete Column for Sign Structures	C.Y.	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F01GMP	Aluminum Posts for Ground Mounted Signs	Pound	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F05GMF	Concrete Foundations for Ground Mounted Signs	C.Y.	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F10OHF	Concrete Foundations for Overhead Sign Structures	CY	Sign Support Structures	x	x	x		x	x				x	DE	315-325
4F11CSP	Concrete in Structures, Pedestals	C.Y.	Sign Support Structures	x	x	x		x		x	x			DE	315-328
4F15IOS	Install Overhead Butterfly Sign Structure No. X	L.S.	Sign Support Structures				x	x					x	DE	315-325
4F20IOS	Install Overhead Cantilever Sign Structure No. X	L.S.	Sign Support Structures				x	x					x	DE	315-325
4F25IOS	Install Overhead Span Sign Structure No. X	L.S.	Sign Support Structures	x	x	x		x			x			DE	315-325
4F26RES	Remove Existing Span Sign Structure No. X	L.S.	Sign Support Structures	x	x	x		x			x			DE	315-325
4F30RES	Remove Existing Cantilever Sign Structure No. X	L.S.	Sign Support Structures	x	x	x		x			x			DE	315-325
4G01TE1	TFE Expansion Bearing, x" X x", Type xx	Each	TFE Expansion Bearing, Type EG	x		x		x		x	x	x	x	DE	325-328

Exhibit 3 - 9
Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Construction Other	Performance	Shop Drawings	Mix Design	QC Plan	Mill Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
4H00PEP	Plain Elastomeric Bearing Pad, x" x x"	Each	TFE Expansion Bearings		x		x			x	x	x	DE	
4H02LEP	Laminated Elastomeric Bearing Pad, x" x x"	Each	TFE Expansion Bearings		x		x			x	x	x	DE	325-328
4J01DAW	Damp-proofing	S.Y.	Miscellaneous			x						x	CM	SS
4J02DAW	Waterproofing	S.Y.	Miscellaneous			x						x	CM	SS
4J04DAW	Preformed Sheet Membrane Waterproofing	S.Y.	Miscellaneous			x						x	CM	SS
4L00004	8" Drainage Pipe, (Fiberglass)	L.F.	8" Drainage Pipe, (Fiberglass)			x				x			CM	SS
4L01BDR	Inlet Frames and Grates	Each	Inlet Frames and Grates			x				x			CM	SS
4L07SCU	Scuppers	Each	Scuppers			x				x			CM	SS
4M00001	Articulated Concrete Block Mattress	S.Y.	Underbridge Slope Protection		x	x	x	x			x	x	CM	385-388
4M02USP	Concrete Slope Protection	SF	Underbridge Slope Protection		x	x	x	x			x	x	CM	385-388
4M06USP	Stone Slope Protection	S.Y.	Underbridge Slope Protection		x	x	x	x			x	x	CM	385-388
4O00COS	Cut-Off Sheeting	SF	Temporary Sheeting											
4O01TSP	Temporary Sheeting	SF	Temporary Sheeting		x	x		x					DE	392-393
4O02TSP	Temporary Sheeting to Remain in Place	SF	Temporary Sheeting		x	x		x					DE	392-393
4P15PCS	Protective Coating	S.F.	Permanent Sheeting			x	x	x	x		x	x	CM	SS
4Q00001	Catches	SY	Bridge Deck Rehabilitation			x		x		x		x	DE	396-438
4Q00BWR	Backwall Reconstruction	LF	Bridge Deck Rehabilitation			x		x			x	x	CM	SS
4Q01APJ	Asphaltic Plug Joint	SF	Bridge Deck Rehabilitation		x	x		x			x	x	CM	396-438
4Q07BDR	Removal of Asphalt Surfacing and Scarify Concrete	S.Y.	Bridge Deck Rehabilitation		x	x		x			x	x	CM	396-438
4Q08BDR	Removal of Existing Surfacing	SY	Bridge Deck Rehabilitation					x		x			CM	396-438
4Q24BDR	Reinforcement Steel, Field Anti - Corrosion Coating	SF	Bridge Deck Rehabilitation		x	x		x		x	x	x	CM	396-438
4Q30S01	Spall Repair, Type 1	SF	Bridge Deck Rehabilitation					x					CM	412
4Q60JSR	Joint Seal Replacement, Type 1	LF	Bridge Deck Rehabilitation		x	x		x			x	x	CM	422
4R00013	Parapet Reconstruction Location No. 1	L.F.	Bridge Structural Repair		x	x				x	x	x	CM/DE	SS
4R01SC1	Repair Spalled Concrete, Type 1 - Abutment	SF	Bridge Structural Repair									x	CM	439-455
4R02SC1	Repair Spalled Concrete, Type 1 - Pier	SF	Bridge Structural Repair									x	CM	439-455
4R25BSR	Substructure Membrane Waterproofing	SF	Bridge Structural Repair		x	x				x	x	x	CM	439-455
4R26RDB	Reconstruct Bearing Area	Each	Bridge Structural Repair		x	x				x	x	x	CM	SS
4Z00APC	Anti-Graffiti Protective Coating	S.F.	Bridge Structural Repair		x	x				x	x	x	CM	SS
4ZA00GMP	Ground Mounted Post, Type A	L.F.	Bridge Structural Repair		x	x				x	x	x	DE	SS
4ZA00NBF	Noise Barrier Foundation	L.F.	Bridge Structural Repair		x	x				x	x	x	DE	SS
4ZA00NBP	Ground Mounted Noise Barrier Panel	S.F.	Bridge Structural Repair		x	x				x	x	x	DE	SS
4ZA00RNB	Remove Existing Ground Mounted Noise Barrier	L.S.	Bridge Structural Repair		x	x				x	x	x	DE	SS
4ZA10NBS	Concrete Penetrating Stain	S.F.	Bridge Structural Repair		x	x				x	x	x	CM	SS
4ZA42CRA	Additional Crushed Stone	C.Y.	Bridge Structural Repair		x	x				x	x	x	CM	SS
4ZF0001	MSE Abutment Wall No. X	SF	MSE Walls		x	x	x	x	x	x	x	x	DE	SS
4ZF0008	MSE Wing Wall No. X	S.F.	MSE Walls		x	x	x	x	x	x	x	x	DE	SS
4ZF0012	MSE North Abutment	S.F.	MSE Walls		x	x	x	x	x	x	x	x	DE	SS
4ZF0019	Retaining Wall No. X	CY	MSE Walls		x	x	x	x	x	x	x	x	DE	SS
4ZG02PMW	Prefabricated Modular Wall No. X	S.F.	MSE Walls		x	x	x	x	x	x	x	x	DE	SS
4ZG07RET	Temporary Retaining System	S.F.	MSE Walls		x	x	x	x	x	x	x	x	DE	SS
4ZL0001	30" Diameter Drilled Shaft	LF	Drilled Shafts for Sign Structure Foundations		x	x		x			x	x	DE	SS
4ZL0002	Demonstration Drilled Shaft, 96-Inch Diameter	Each	Drilled Shafts for Sign Structure Foundations		x	x		x			x	x	DE	SS
4ZL0004	Osterberg Cell Load Test, 96-Inch Diameter Shaft	Each	Drilled Shafts for Sign Structure Foundations		x	x		x			x	x	DE	SS
4ZL0005	Obstructions	L.F.	Drilled Shafts for Sign Structure Foundations		x	x		x			x	x	DE	SS
4ZL0006	Crosshole Sonic Logging (CSL) of Drilled Shaft	Each	Drilled Shafts for Sign Structure Foundations		x	x		x			x	x	DE	SS

Exhibit 3 - 9

Material Acceptance Criteria Matrix

Item Spec Number	Pay Item Description	Pay Unit	Standard Specification Description	Source	Testing	Division 900 - Conformance	Other Conformance	Shop Drawings	Mix Design	QC Plan	Mill Certifications	Certifications of Compliance	Receiving Tickets	Reviewer (CM or DE)	Reference Page No. in the Std Spec or Sup Specs
4ZL0007	Crosshole Tomography, If and Where Directed	Each	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL0008	Concrete Coring at Drilled Shaft, If and Where Directed	L.F.	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL0011	Shaft Inspection Device (Mini-SID)	Each	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL0013	Drilled Shaft for Sign Structures	L.F.	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL0016	54" Drilled Shaft for Sign Structures	L.F.	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL0017	30" Diameter Drilled Shafts for Sign Structure	L.F.	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL0026	Sonic Caliper Test	Each	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZL01SDE	Furnishing Drilled Shaft Drilling Equipment	L.S.	Drilled Shafts for Sign Structure Foundations	x		x		x			x		x	DE	SS
4ZM02HPC	Concrete in Deck Slabs, HPC	C.Y.	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM/DE	SS
4ZM03HPC	Concrete in Headblock, HPC	CY	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM	418
4ZM04HPC	Concrete in Parapet, HPC	CY	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM/DE	418
4ZM05HPC	Bridge Approach Slab, HPC	S.Y.	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM	SS
4ZM08HPC	Relief Slab, 18" Thick, HPC	S.Y.	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM	SS
4ZM09HPC	Concrete in Sidewalk, HPC	C.Y.	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM	SS
4ZM10HPC	Sleeper Slab, HPC	C.Y.	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM	SS
4ZM12HPC	Concrete in Median Barrier, HPC	C.Y.	High Performance Concrete (HPC)	x	x	x		x	x		x		x	CM	SS
4ZN0031	Bitumen Coating	LF	Bitumen Coating For Steel Piles	x			x	x					x	CM	644
4ZN0032	Salt Storage Structure	L.S.	Salt Storage Structure	x			x	x						CM	SS
4ZN0037	Install Overhead Span Variable Message Sign and Variable Speed Limit Sign Support Structure No. X	LS	Overhead Span VMS & VSL Supports	x		x		x			x		x	CM/DE	SS
4ZN0041	Fabrication and Delivery of overhead Span Sign Support Structure, xx'-x" Length	Each	Overhead Span VMS & VSL Supports	x		x		x			x		x	DE/CM	SS
4ZN0081	Timber Lagging	S.Y.	Overhead Span VMS & VSL Supports	x		x		x			x		x	DE	SS
4ZN0082	Precast Concrete Lagging	S.Y.	Overhead Span VMS & VSL Supports	x		x		x			x		x	DE	SS
4ZN0085	Removal of Existing VMS Signs and Structures	L.S.	Overhead Span VMS & VSL Supports	x		x		x			x		x	CM/DE	SS
4ZN00SSP	Steel Soldier Piles	L.F.	Overhead Span VMS & VSL Supports	x		x		x			x		x	DE	SS
5A00002	8-Inch Combination Underdrain	L.F.	Underdrains	x	x	x							x	CM	481-482
5A00004	8" Outlet Pipe	LF	Underdrains	x	x	x							x	CM	481-482
5A00007	10" Pipe Underdrain	L.F.	Underdrains	x	x	x							x	CM	481-482
5A00008	12" High Density Polyethylene Pipe	L.F.	Underdrains	x	x	x							x	CM	481-482
5A00009	12" High Density Polyethylene Elbows	Each	Underdrains	x	x	x							x	CM	481-482
5A00010	12" High Density Polyethylene End Section	Each	Underdrains	x	x	x							x	CM	481-482
5A00011	12" Trench Drain	L.F.	Underdrains	x	x	x							x	CM	481-482
5A00012	Bio-Retention System	S.Y.	Underdrains	x	x	x							x	CM	481-482
5A00013	18 Inch Half Section Corrugated Metal Pipe	L.F.	Underdrains	x	x	x							x	CM	481-482
5A00014	Underdrain, Type X	L.F.	Underdrains	x	x	x							x	CM	481-482
5A12PBD	12" Bleeder Drain	LF	Storm Drains	x		x							x	CM	483-487
5B00001	36" Reinforced Concrete Flared End Section	Each	Storm Drains	x		x							x	CM	483-487
5B00002	14"x23" Reinforced Concrete End Sections	Each	Storm Drains	x		x							x	CM	483-487
5B00004	42" Reinforced Concrete Culvert Pipe	L.F.	Storm Drains	x		x							x	CM	483-487
5B00008	8" Corrugated Metal Pipe	L.F.	Storm Drains	x		x							x	CM	483-487
5B00014	19' x 30" Horizontal Elliptical Reinforced Concrete Pipe	L.F.	Storm Drains	x		x							x	CM	SS
5B00018	38"x60" Reinforced Concrete Elliptical Pipe	L.F.	Storm Drains	x		x							x	CM	SS
5B00024	48" Corrugated Aluminum Alloy Pipe, Gauge 12	L.F.	Storm Drains	x		x							x	CM	481-487
5B00026	29"x45" Reinforced Concrete Elliptical Flared End Sections	Each	Storm Drains	x		x							x	CM	481-487
5B00030	36" Corrugated Aluminum Alloy Pipe, Gauge 14	L.F.	Storm Drains	x		x							x	CM	481-487

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5B00038	Precast Concrete Arch Culvert, 21' Diameter	L.F.	Storm Drains	x		x						x	x		CM	SS	
5B00039	Precast Concrete Culvert, 8' x 11'	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B00042	29"x45" Reinforced Concrete Elliptical Pipe	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B00044	19" x 30" Reinforced Concrete Elliptical Pipe, Class V	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B00046	3' Ductile Iron Pipe	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B00048	43" x 68" Reinforced Concrete Elliptical Pipe, Class V	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B00HSC	18 Inch Half Section Corrugated Metal Pipe	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B00VDS	Vertical Drain System	S.Y.	Storm Drains	x	x							x	x		CM	SS	
5B01CSD	Cleaning Existing Storm Drains	L.F.	Storm Drains				x				x				CM	SS	
5B08PVC	8" PVC Schedule 80	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B12CME	12" Corrugated Metal Flared End Section	Each	Storm Drains	x	x							x	x		CM	SS	
5B12DIP	12" Ductile Iron Pipe	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B12FCE	12" Reinforced Concrete Flared End Section	Each	Storm Drains	x	x							x	x		CM	SS	
5B12PFS	12" High Density Polyethylene Flared End Section	Each	Storm Drains	x	x							x	x		CM	SS	
5B12RC3	12" Reinforced Concrete Pipe	L.F.	Storm Drains	x	x							x	x		CM	SS	
5B12RC5	12" Reinforced Concrete Pipe, Class V	L.F.	Storm Drains	x	x							x	x		CM	SS	
5C55CDS	Cleaning Existing Drainage Structures	Each	Storm Drains				x				x				CM	SS	
5C56CDS	Clean Existing Drainage System	LF	Storm Drains				x				x				CM	483-487	
5C00001	Inlet, Type D1 Modified	Each	Manholes & Inlets	x	x	x	x					x		x	CM	487-491	
5C00004	Outlet Control Structure	Each	Manholes & Inlets			x	x					x	x		CM	487-491	
5C00006	Temporary Pipe Plug	Each	Manholes & Inlets	x	x	x	x							x	CM	SS	
5C00007	Inlet, Type Double D1	Each	Manholes & Inlets	x	x	x	x				x			x	CM	SS	
5C00010	Inlet, Type D1 (NJDOT)	Unit	Manholes & Inlets	s	s	s	s				s			s	CM	SS	
5C00017	Manhole, Type MHX	Each	Manholes & Inlets	x	x	x	x				x			x	CM	487-491	
5C00018	Inlet, Type D2-1	Each	Manholes & Inlets	x	x	x	x				x			x	CM	487-491	
5C00022	Reset Existing Casting	Each	Manholes & Inlets	x			x	x							CM	SS	
5C00023	Flow Control Structure	Each	Manholes & Inlets	x	x		x				x	x		x	DE	SS	
5C00027	Drainage Chamber	Each	Manholes & Inlets	x		x	x					x		x	DE	487-491	
5C00028	Manhole, Type SP-1	Each	Manholes & Inlets	x		x	x					x		x	CM	487-491	
5C00029	Manhole, Type SP-2	Each	Manholes & Inlets	x		x	x					x		x	CM	487-491	
5C00039	Reset Frame, Type E with Extension	Each	Manholes & Inlets	x		x	x	x				x		x	CM	487-491	
5C01NOS	Outlet Structure	Each	Manholes & Inlets	x		x	x					x		x	CM	SS	
5C05NBO	New Inlet Frame & Grate, Type B	Each	Manholes & Inlets	x		x	x					x		x	CM	SS	
5C05NG1	New Inlet Frame & Grate, Type G-1	Each	Manholes & Inlets	x		x	x	x			x	x		x	CM	SS	
5C10ED2	Reconstructed Inlet, Type D2, Using Existing Grate and Frame	Each	Manholes & Inlets	x		x	x	x				x		x	CM	SS	
5C10INC	Incidental Concrete	Each	Manholes & Inlets	x		x	x					x		x	CM	SS	
5C10INT	Inlet Converted to Manhole	Each	Manholes & Inlets	x		x	x					x		x	CM	SS	
5C10NBX	Reconstructed Inlet, Type B1-X1, Using New Grate and Frame	Each	Manholes & Inlets	x		x	x	x				x		x	CM	SS	
5C25NFC	New Manhole Frame and Cover	Each	Manholes & Inlets	x		x		x				x	x		CM	SS	
5C40RPI	Repair Inlets	SF	Manholes & Inlets	x		x	x	x				x	x		CM	487-491	
5C40RSF	Reset Frame	Each	Manholes & Inlets	x		x	x	x				x	x		CM	487-491	
5C50TCI	Temporary Inlet Cap	Each	Manholes & Inlets	x		x		x				x	x		CM	SS	
5C56CDS	Clean Existing Drainage System	LF	Manholes & Inlets					x				x			CM	SS	
5D00001	Fill Abandoned Pipe	CY	Minor Conc Structures & Incidental Conc	x	x	x	x				x				x	CM	492
5D00002	precast Concrete Splash Pad	Each	precast Concrete Splash Pad	x	x	x					x				x	CM	SS

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5D00003	Pipe Support Bridge	L.S.	Pipe Support Bridge		x	x	x		x				x	DE	492
5D00004	Mitered Headwall	Each	Mitered Headwall		x	x	x		x				x	CM	SS
5D01G04	Concrete Gutter, 4" Thick	S.Y.	Concrete Gutter, 4" Thick		x	x	x		x				x	CM	SS
5E01ALC	Asphalt Concrete Lip Curb	L.F.	Asphalt Conc. Lip Curb and Lip Curb inlets		x	x	x		x				x	CM	493
5E02ALC	Asphalt Concrete Lip Curb Inlet	Each	Asphalt Conc. Lip Curb and Lip Curb inlets		x	x	x		x				x	CM	493
5F00001	9" x 16" Concrete Verticle Curb (NJDOT)	LF	Concrete Curb		x	x	x		x				x	CM	495
5F00002	Concrete Island, 4" Thick	SY	Concrete Curb		x	x	x		x				x	CM	495
5F00003	Belgian Block Curb	LF	Concrete Curb		x	x	x		x				x	CM	SS
5F01CLC	Concrete Lip Curb	L.F.	Concrete Curb		x	x	x		x				x	CM	495
5H00001	Concrete Median Barrier, Protection, Variable Height	LF	Concrete Median Barrier		x	x		x	x		x		x	CM	497
5H00004	VMS Equipment Median	Each	Concrete Median Barrier		x	x		x	x		x		x	DE	497
5H01CMB	Concrete Median Barrier Roadway	LF	Concrete Median Barrier		x	x	x	x	x		x		x	CM	497
5H02CBC	15"x41" Concrete Barrier Curb	L.F.	Concrete Median Barrier		x	x		x	x		x		x	CM	497
5H03CMB	Concrete Median Barrier, Protection	LF	Concrete Median Barrier		x	x		x	x		x		x	CM	497
5H06CMB	Concrete Median Barrier, Type 1	LF	Concrete Median Barrier		x	x		x	x		x		x	CM	497
5H30CMB	Concrete Roadway Barrier With Moment Slab	LF	Concrete Median Barrier		x	x		x	x		x		x	DE/CM	497
5I00002	4" Aluminum Tube, Concrete Mounted	LF	Sign Support Structures	x	x			x			x		x	CM	315
5I01RES	Relocate Existing Ground-Mounted Sign	Each	Sign Panels			x		x				x	x	CM	SS
5I01RGM	Removal of Existing Ground-Mounted Sign	Each	Sign Panels			x		x				x	x	CM	SS
5I01SNP	Sign Panels	SF	Sign Panels			x		x				x	x	DE	501
5I05SPP	U-Channel Post	LF	Sign Panels			x		x				x	x	CM	505
5I11REM	Remove Signs	Each	Sign Panels			x		x				x	x	CM	505
5I16REL	Relocate Sign Panels	Each	Sign Panels			x		x				x	x	CM	505
5J00007	Telescoping Guide Rail End Terminal	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J00FGT	Flared Guide Rail Terminal	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J01OBT	Offset Bracket	Each	Guard Rail		x	x		x				x	x	CM	SS
5J01PCA	Parapet Connection, Type A	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J01PCB	Parapet Connection, Type B	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J01RBG	Removal of Beam Guide Rail	LF	Guard Rail		x	x		x				x	x	CM	506-512
5J01RPW	Beam Guide Rail Post Weldment	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J01SWA	Safety Walk Connection, Type A	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J01SWB	Safety Walk Connection, Type B	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J51BGE	Beam Guide Rail Element	L.F.	Guard Rail		x	x		x				x	x	CM	506-513
5J51TTS	Tangent Guide Rail Terminal	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J52ABG	Beam Guide Rail Anchorage	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J52BET	Beam Guide Rail Buried End Terminal	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J52BGD	Beam Guide Rail, Dual-Faced	LF	Guard Rail		x	x		x				x	x	CM	506-512
5J52BGR	Beam Guide Rail	LF	Guard Rail		x	x		x				x	x	CM	506-512
5J52DFB	Beam Guide Rail, Dual-Faced, Bridge	LF	Guard Rail		x	x		x				x	x	CM	506-512
5J53RRS	Rub Rail	LF	Guard Rail		x	x		x				x	x	CM	506-512
5J54BGP	Beam Guide Rail Post	Each	Guard Rail		x	x		x				x	x	CM	506-512
5J56RGN	Reset Beam Guide Rail with New Post	L.F.	Guard Rail		x	x		x				x	x	CM	SS
5JGRP02	Beam Guide Rail Post, 8' Long	Each	Guard Rail		x	x		x				x	x	CM	SS
5JRGR01	Reset Beam Guide Rail, Type A	L.F.	Guard Rail		x	x		x				x	x	CM	SS
5K00001	Chain Link Fence, Type II, 84" High	LF	Fencing		x	x		x				x	x	CM	512-516
5K00002	Vehicular Gate, Type II, 84" High, 12' Wide	Each	Fencing		x	x		x				x	x	CM	512-517

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Material Acceptance Criteria Matrix

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5K00005	Chain Link Fence Gate	Each	Fencing	x		x		x				x	x	CM	512-516
5K00009	Bridge Fencing, Curved Top, 75" High	L.F.	Fencing	x		x		x				x	x	CM	SS
5K00012	Chain-Link Fence, Aluminum Coated Steel, Bridge, 6'-3" High (NJDOT)	L.F.	Fencing	x		x		x				x	x	CM	SS
5K00017	Reset Fence	L.F.	Fencing	x		x		x				x	x	CM	SS
5K00019	Chain Link Fence, Type II, 48" High	L.F.	Fencing	x		x		x				x	x	CM	SS
5K00020	Vehicular Gate, Type II, 48" High, 12' Wide	Each	Fencing	x		x		x				x	x	CM	SS
5K00021	Temporary Fencing, 96" High	L.F.	Fencing	x		x		x				x	x	CM	SS
5K00022	Fence Screening Slats	L.F.	Fencing	x		x		x				x	x	CM	SS
5K00024	Vehicular Gate, Type II, 84" High, 30' Wide	Each	Fencing	x		x		x				x	x	CM	SS
5K03PGT	Pedestrian Gate, Type II, 84" High, 4' Wide	Each	Fencing	x		x		x				x	x	CM	SS
5K07CLF	Chain Link Fence, 7' High	L.F.	Fencing	x		x		x				x	x	CM	512-516
5K10MFN	Median Fencing	L.F.	Fencing	x		x		x				x	x	CM	SS
5K84TCL	Temporary Chain Link Fence, Type II, 84" High	L.F.	Fencing	x		x		x				x	x	CM	SS
5L01MON	Concrete Monuments	Each	Concrete Monuments	x		x						x	x	CM	517
5N00002	Concrete Driveway Apron, 6" Thick	S.Y.	Sidewalk	x	x	x		x				x		CM	
5N00003	Detectable Warning Surface	S.Y.	Sidewalk	x		x		x				x		CM	SS
5N04ACS	Asphalt Concrete Sidewalk, 4" Thick	S.Y.	Sidewalk	x		x		x				x		CM	519-521
5N04PCS	Concrete Sidewalk, 4" Thick	S.Y.	Sidewalk	x	x	x		x				x		CM	519-521
5N10RSW	Reconstruct Safetywalk	S.F.	Sidewalk	x		x		x				x		CM	SS
5O01BAR	Delineator, Type BA-R	Each	Delineators			x						x	x	CM	521-524
5O30CAS	Delineator, Type CAS-Y	Each	Delineators			x						x	x	CM	521-524
5P00007	Pavement Striping, White, 12' Wide	L.F.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P01CMT	Preformed Contrast Marking Tape	L.F.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P01DMG	Diamond Grinding	L.F.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P06REM	Striping and Marking Removal	L.S.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P07REM	Removal of Pavement Stripes (Hydromilling)	L.F.	Pavement Strips & Markings	x		x						x	x	CM	525-535
5P10RPG	Horizontal Ramp Gate	Each	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P10TMP	Temporary Pavement Striping	L.F.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P20LLS	Traffic Stripes, Long - Life, Epoxy Resin	L.F.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P30LLM	Traffic Markings, Lines, long - Life, Epoxy Resin	L.F.	Pavement Strips & Markings	x		x		x				x	x	CM	525-535
5P31LLM	Traffic Markings, Lines, Long - Life, Thermoplastic	L.F.	Pavement Strips & Markings	x		x						x	x	CM	525-535
5Q01FOA	Furnish Field Office, Type A	Unit	Maintain Field Office				x							CM	SS
5Q02MFA	Maintain Field Office, Type A	Month	Maintain Field Office				x							CM	SS
5Q05FDC	Remove Field Office Complex	L.S.	Maintain Field Office				x							CM	SS
5Q20MFC	Maintain Field Office Complex	Month	Maintain Field Office				x							CM	SS
5R01RPG	Horizontal Ramp Gate	Each	Horizontal Ramp Gate									x		CM	SS
5V01PIT	Test Pits	Each	Test Pits									x		CM	549-550
5V02PIT	Test Pit Extra Depth	L.F.	Test Pits									x		CM	549-550
5W01CDV	Cleaning Existing Storm Drain, 12" to 48" Diameter	L.F.	Miscellaneous Drainage				x					x		CM	550-552
5W02CDV	Clean Existing Storm Drains, 15" to 24" Diameter	L.F.	Miscellaneous Drainage				x					x		CM	550-552
5X00001	Quadguard Impact Attenuator, 9 Bays, 36" Wide	Each	Impact Attenuator				x	x				x		CM	552-553
5X01PGT	Pressure Grout Approach Slab	Each	Impact Attenuator				x	x				x		CM	552-553
5X01ZTA	Z-Turn Attenuator	Each	Impact Attenuator				x	x				x		CM	552-553
5Y01MRP	Mile Marker, Type RP	Each	Mile Marker	x		x		x				x		CM	554
5ZA01HGR	Utility Support Hangers	Each	Utility Support Hangers	x		x		x				x		CM/DE	555-556
5ZD01RPM	Raised Pavement Markers	Each	Raised Pavement Markers	x		x		x				x		CM	558

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5ZD07RPM	Raised Pavement Markers, Bi-Directional, Amber Lens	Each	Raised Pavement Markers	x		x	x				x	CM	558
5ZG00PJ	48 Inch Reinforced Concrete Pipe, Class V Pipe Jacking	LF	Pipe Jacking	x	x	x						CM/DE	SS
5ZG04PJ	30 Inch Steel Pipe Jacking	L.F.	Pipe Jacking	x	x	x						CM/DE	SS
5ZH01RST	Thermoplastic Rumble Strips	L.F.	Rumble Strips	x	x	x						CM	S
5ZJ0004	Stormwater Diversion Chamber	Each	Stormwater Diversion Chamber	x	x	x						CM/DE	SS
5ZJ01STU	Stormwater Treatment Units	Each	Manholes and Inlets	x	x	x	x			x		CM/DE	SS
5ZL00FAC	Temporary Water Facilities	L.S.	Temporary Water Facilities	x	x	x			x		x	CM/DE	SS
5ZL0002	2-6" Electric Riser Conduit, Concrete Encased	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0003	Electric Manhole	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0004	6-4" Telephone Conduit Bank	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0005	6-4" Telephone Conduit Bank, Bridge Mounted	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0012	9-5" Duct, Concrete Encased Ductbank	LF	PS&G Electric Manholes and Conduits	x	x	x	LF		x		x	CM	SS
5ZL0017	36" Split Steel Casing	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0020	Water Service Connection	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0021	6" Ductile Iron Pipe Sewer Main	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0022	Manufactured Treatment Devices, Type 1	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x		CM	SS
5ZL0028	2-5" Duct, Sand Encased Ductbank	LF	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0029	Reset Water Valve Boxes	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0030	48" Steel Casing Pipe, Jacking And Tunneling Method	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0031	26" Steel Casing Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0032	6" Polyvinyl Chloride Sewer Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0033	8" Ductile Iron Sanitary Sewer Force Main	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0035	12" Plastic Gas Main	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0037	12" Steel Gas Main	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0038	Electrical Conduit, 3" Steel	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0039	Concrete Encased 4" Duct Bank	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0041	12"x12"x6" C.I. Junction Box	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0044	8" Polyvinyl Chloride Sewer Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0081	Water Main Blow Off Assemblies	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0085	12" Tapping Sleeve and Valve	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0086	12" Line Valve	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0087	12" Line Stop	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0088	Manhole, Sanitary Sewer, 5' Diameter	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0090	Sanitary Sewer Air Release And Vacuum Valve Assemblies	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0091	Sanitary Sewer Sampling Valve Assemblies	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0092	Sanitary Sewer Blow Off Valve Assemblies	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0093	Cable Hand Hole	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0094	Utility Relocation, Telephone	L.S.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM/DE	SS
5ZL0100	6" Line Stop	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0105	2-4" Telephone Riser Conduit	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0106	2-4" Telephone Riser Conduit, Concrete Encased	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0107	1-4" Cable Riser Conduit, Concrete Encased	L.F.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0108	Manhole, PSE&G 3-WAY	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0111	8" PVC Sanitary Pipe	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0114	Reset Gas Valve	Each	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM	SS
5ZL0119	Relocation of JCP&L Electrical Facilities	L.S.	PS&G Electric Manholes and Conduits	x	x	x			x		x	CM/DE	SS

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5ZL0123		6-4" Telephone PVC Conduits	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0124		2-4" Electrical (PSE&G) PVC Conduits	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0125		4-4" Cable TV PVC Conduits (Encased in Concrete)	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0126		4-4" Cable Conduit Bank, Bridge Mounted	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM/DE	SS	
5ZL0127		9-5" Duct, On Structures	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM/DE	SS	
5ZL0128		2-5" Duct, Concrete Encased Ductbank, with Risers	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0130		4" Ductile Iron Pipe Sewer Main	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0132		6" Sanitary Sewer Valve	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0133		16" Steel Casing	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0134		Removal of Sewer Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0135		Sanitary Wastewater Transport and Disposal	L.S.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0136		6" Ductile Iron Water Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0144		10" Water Valve	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0145		10" Ductile Iron Water Cap	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0148		Water Service Cap	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0149		Water Hydrant	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0151		Removal of Water Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0152		12" Gas Valve	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0153		Reset Gas Valve Box	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0154		Gas Service Cap	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0155		Linestop and Tie-In Assistance	Crew	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0156		Fabricate Gas Tie-In Piece	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0157		Removal of Gas Pipe	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0158		Relocate JCP&L Electric Distribution - CHAR	L.S.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM/DE	SS	
5ZL0161		4" Telephone PVC	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0162		2-4" Telephone Duct Bank, PVC	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0173		24"x36" Telephone Junction Box	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0180		Removal and Reinstallation of Existing Fiber Cables	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0181		Dry Standpipe	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0189		Relocation of JCP&L Electrical Facilities - Distribution Only	LS	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM/DE	SS	
5ZL0190		Relocation of JCP&L Electrical Facilities - 34.5 KV Transmission Only	LS	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM/DE	SS	
5ZL0191		Relocation of Temporary Verizon Facilities	LS	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM/DE	SS	
5ZL0192		8" Plastic Gas Line (Under Roadway)	LF	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0193		8" Temporary Gas Line, On Structure, 8" Temporary Steel Gas Line (On and Off	LF	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0194		8" Temporary Plastic Gas Line (Under Roadway)	LF	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0195		Water Air Release Assembly	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0196		2" Water Valve and Blow-Off	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0197		4" Water Valve and Blow-Off	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0198		13-4" Telephone Duct Bank, PVC	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0199		6x12" Telephone Manhole, Rebuild	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0200		4" Telephone, Swing Conduit	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0201		Manhole, Sanitary Sewer Air Release	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0202		12" Ductile Iron Water Cap	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0203		Gas Expansion Joint Vault	Each	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0205		Manhole, Sanitary Sewer (4' Diameter)	Unit	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	
5ZL0206		3-4" Telephone Riser Conduit	L.F.	PS&G Electric Manholes and Conduits	x	x	x	x			x	x	x	CM	SS	

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Material Acceptance Criteria Matrix

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5ZL0207	8" Steel Gas Main	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL01FAC	Temporary Sanitary Facilities	L.S.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL01FHA	Fire Hydrant Assemblies	Each	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL01GM	4" Plastic Gas Main	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL01GSC	Gas Service Connection	Each	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL01WM	4" Ductile Iron Water Pipe Class 54 Water Main	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL02FHA	Reset Fire Hydrant	Each	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL04DIP	4" Ductile Iron Water Pipe Class 52 Force Main	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL04WVU	4" Water Valve	Each	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL06SGS	6" Steel Gas Main, On Structures	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL08DIS	8" Ductile Iron Sanitary Sewer Main	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZL12DP	12" Ductile Iron Water Pipe, Class 52	L.F.	PS&G Electric Manholes and Conduits	x		x		x			x		x	CM	SS
5ZO0010	Lead and Asbestos Survey, Report and Monitoring	Each	Non-Hazardous Material Handling											CM/DE	SS
5ZO0011	Sluice gate	Each	Non-Hazardous Material Handling	x		x		x				x	x	CM/DE	SS
5ZO0012	Demolition of Buildings (1)	L.S.	Non-Hazardous Material Handling	x		x		x					x	DE/CM	SS
5ZO0017	Removal of Asbestos (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$100,000. Enter a Unit Price of \$100,000 as your bid for this item.)	Each	Non-Hazardous Material Handling	x		x		x					x	CM/DE	SS
5ZO0018	Off-Site Disposal of ID-27 Waste	Ton	Non-Hazardous Material Handling					x		x			x	CM	SS
5ZO0019	Environmental Health and Safety Plans	Ton	Environmental Health and Safety Plans			x		x						CM	SS
5ZO0021	Removal of Underground Storage Tanks	Each	Removal of Underground Storage Tanks	x		x		x					x	CM/DE	SS
5ZO0022	5" Fiberglass Conduit	L.F.	PUBLIC UTILITIES IN STRUCTURES	x		x		x						CM	SS
5ZO0024	As-Built Plans	L.S.	Utilities					x						CM	SS
5ZO0025	Oil Water Separato	L.S.	Oil Water Separato	x		x		x					x		SS
5ZO0026	Removal of Aboveground Storage Tanks	L.S.	Non-Hazardous Material Handling					x		x			x	CM/DE	SS
5ZO0029	4" Fiberglass Conduit, On Structures	L.F.	PUBLIC UTILITIES IN STRUCTURES	x		x		x						CM	SS
5ZO0030	Removal of Asbestos (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$20,000. Enter a Unit Price of \$20,000 as your bid for this item.)	L.S.	Non-Hazardous Material Handling					x		x			x	CM	SS
5ZO0041	Installation of 4" Telephone Conduit, On Structures	L.F.	PUBLIC UTILITIES IN STRUCTURES	x		x		x						CM	SS
5ZO0047	Track Removal, Storage, and Tie disposal, Siding (Excluding Grade Crossing)	T.F.	Track Removal, Storage, and Tie disposal, Siding (Excluding Grade Crossing)	x		x		x						CM	SS
5ZO0048	Track Removal, Storage, and Tie disposal, Main Track (Excluding Turnout)	T.F.	Track Removal, Storage, and Tie disposal, Main Track (Excluding Turnout)	x		x		x						CM	SS
5ZO0049	Remove and Store Existing No. 10 Turnout	Each	Remove and Store Existing No. 10 Turnout	x		x		x						CM	SS
5ZO0050	Remove and Replace Designated Switch Timbers	L.F.	Remove and Replace Designated Switch Timbers	x		x		x						CM	SS
5ZO0051	Remove Grade Crossing, Salvage Rail & Tie Plates, Dispose of Ties and Chairrail, Restore Pavement	T.F.	Plates, Dispose of Ties and Chairrail, Restore Pavement	x		x		x						CM	SS
5ZO0052	Rebuild Track; Subballast, Ballast, New Ties, Fit Tie Plates, Dispose, Fit Rail, Line and Surface	T.F.	Rebuild Track; Subballast, Ballast, New Ties, Fit Tie Plates, Dispose, Fit Rail, Line and Surface	x		x		x						CM	SS
5ZO0053	Reinstall No. 10 Turnout, Subballast, Ballast	Each	Reinstall No. 10 Turnout, Subballast, Ballast	x		x		x						CM	SS

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5ZO0054	Supply and Install New Grade Crossing, Rail, Ties, Subballast, Ballast, Pavement, Rubber Flangeway	T.F.	Supply and Install New Grade Crossing, Rail, Ties, Subballast, Ballast, Pavement, Rubber Flangeway	x		x		x						CM	SS
5ZO0019	Environmental Health and Safety Plans	LS	Environmental Health and Safety					x		x				DE	SS
5ZO0010	Lead and Asbestos Survey, Report and Monitoring	L.S.	Underground Storage Tank Removal					x		x				DE	128
5ZO0012	Demolition of Buildings (1)	L.S.	Underground Storage Tank Removal					x		x				DE	128
5ZO0018	Off-Site Disposal of ID-27 Waste	Ton	Underground Storage Tank Removal					x		x			x	DE	128
5ZO0019	Environmental Health and Safety Plans	L.S.	Underground Storage Tank Removal					x		x				DE	128
5ZO0021	Removal of Underground Storage Tank	Each	Underground Storage Tank Removal					x		x				DE	128
5ZO0055	Transite Duct Bank Removal	L.F.	Underground Storage Tank Removal					x		x				DE	128
5ZO0061	Filter Diaphragm	C.Y.	Underground Storage Tank Removal					x		x				CM	SS
5ZO0062	Temporary Subgrade Stabilization for Haul Roads, Type 1	S.Y.	Underground Storage Tank Removal					x		x				CM	SS
5ZO0063	Temporary Subgrade Stabilization for Haul Roads, Type 2	S.Y.	Underground Storage Tank Removal					x		x				CM	SS
5ZO0124	Highway Advisory Radio Sign	Each	Highway Advisory Radio Sign					x		x				CM	SS
5ZO0126	Access Gate	L.S.	Access Gate					x		x				CM	SS
5ZO0127	Lead and Asbestos Survey, Report and Monitoring (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$XX,000. Enter a Unit Price of \$50,000 as your bid for this item.)	L.S.	Lead and Asbestos Survey, Report and Monitoring (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$XX,000. Enter a Unit Price of \$XX,000 as your bid for this item.)					x		x				CM	SS
5ZO0130	Furnish Track	T.F.	Furnish Track					x		x				CM	SS
5ZO01TNK	Tank Cleaning	Month	Tank Cleaning					x		x				CM	SS
5ZO02TNK	Tank Decontamination	Each	Tank Decontamination					x		x				CM	SS
5ZO03TNK	Tank Draining - Storm System	Each	Tank Draining - Storm System					x		x				CM	SS
5ZO04TNK	Tank Draining - Treatment Facility	Gallon	Tank Draining - Treatment Facility					x		x				CM	SS
5ZO05TNK	Tank Rental	Month	Tank Rental					x		x				CM	SS
5ZZ42GR	Controlled Release Terminals	L.F.	Underground Storage Tank Removal					x		x				DE	SS
5ZZ43GR	Controlled Release Terminal Anchorages	Each	Controlled Release Terminal Anchorages					x		x				CM	SS
6A00058	Concrete Foundation For Lighting Distribution and Control Panel	Each	Common Electrical Provisions	x	x	x					x	x		DE/CM	SS
6A00080	Foundation, Type MC	Each	Common Electrical Provisions	x	x	x					x	x		DE/CM	SS
6A00083	Transformer, Type 45KVA	Each	Common Electrical Provisions	x	x	x					x	x		DE	SS
6A00084	Enclosed Circuit Breaker	Each	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A00096	Meter and Disconnect Mount	Each	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A00097	Service Cable Replacement in Kind	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A00100	Temporary Electrical and Lighting Facilities	L.S.	Common Electrical Provisions	x	x	x					x	x		DE/CM	SS
6A01GWR	#1/0 A.W.G Ground Wire	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A03RMS	3" Rigid Metallic Conduit, on Structures	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A03RMU	3" Rigid Metallic Conduit, Underground	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A03RNC	3" Rigid Nonmetallic Conduit, PVC-(Schedule 40)	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A06GWR	#6 A.W.G. Ground Wire	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A06MLC	#6 A.W.G. Multiple Lighting Cable	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A06SVC	#6 A.W.G. Service Cable (600V)	L.F.	Common Electrical Provisions	x	x	x					x	x		CM	SS
6A65RAS	Remove and Salvage Existing Facilities	LF	Common Electrical Provisions	x	x	x					x	x		CM	563-76
6B00004	Underbridge Lighting Fixture	Each	Roadway Lighting	x	x	x					x			DE	576-580
6B00005	Tunnel Lighting Fixture	Each	Roadway Lighting	x	x	x					x			DE	576-580
6B00010	Load Center Cabinet '206TPK'	Each	Roadway Lighting	x	x	x					x			DE	576-580

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6B00011	Lighting Standard Base, Type I	Each	Roadway Lighting	X		X		X				X		DE	
6B00060	Meter Cabinet, Type H, Voltage 240/480V, 200 AMP	Each	Roadway Lighting	X	X	X						X		DE	SS
6B00061	Tunnel Lighting	L.S.	Roadway Lighting	X	X	X						X		DE	
6B00066	Temporary Lighting Systems	L.S.	Roadway Lighting	X	X	X						X		CM	
6B00075	Current Transformer Cabinet	Each	Roadway Lighting	X	X	X						X		DE	
6B00076	Load Center Cabinet, Type F Modified	Each	Roadway Lighting	X	X	X						X		DE	
6B01LCJ	Load Center, Type J1	Each	Roadway Lighting	X	X	X						X		DE	
6B01CBM	Concrete Base, Type M	Each	Roadway Lighting	X	X	X						X		DE	
6B01LCT	Load Center, Type T	Each	Roadway Lighting	X	X	X						X		DE	
6B01MCN	Meter Cabinet, Type Nonstandard, Voltage 277/480V	Each	Roadway Lighting											DE	
6B04RSF	Remove And Salvage Existing Facilities	L.S.	Roadway Lighting	X	X	X						X	X	CM	SS
6B05RWL	Roadway Lighting Distribution and Control Panel	Each	Roadway Lighting	X	X							X	X	DE	SS
6B06RWL	RELOCATE JUNCTION BOX FOUNDATION, TYPE JBF	Each	Roadway Lighting	X	X	X	X					X	X	CM	SS
6B07RWL	RELOCATE LIGHTING STANDARD	Each	Roadway Lighting	X	X	X	X					X	X	CM	SS
6B26LMG	Lighting Standard, Type L-MG-26	Each	Roadway Lighting	X	X							X	X	DE	SS
6B40TP4	Type P4 Luminaire, 400W	Each	Roadway Lighting	X	X		X					X		DE	
6CIS02	Illumination For Sign Structure No. XX.XX	L.S.	Roadway Lighting	X	X	X	X					X		DE	
6E01ESR	Removal of Emergency Speed Warning and Speed Limit Signs	L.S.	Emergency Speed Warning and Speed Limit Signs				X	X						CM	SS
6H00001	System Manufacturer Installation and Testing (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$20,000. Enter a Unit Price of \$20,000 as your bid for this item.)	L.S.	System Manufacturer Installation and Testing (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$20,000. Enter a Unit Price of \$20,000 as your bid for this item.)				X							CM	SS
6J00001	In-Pavement Wireless Sensor	Each	Wireless Vehicle Detection System				X	X						DE	SS
6J00003	Wireless Access Point, Pole Mounted	Each	Wireless Vehicle Detection System											DE	
6J00007	Spare Parts	L.S.	Spare Parts				X	X						DE	
6J00012	JCP&L Electrical Service Contract	L.S.	JCP&L Electrical Service Contract				X	X						CM	
6J00017	Variable Message Sign Installation	Each	Variable Message Sign Installation				X	X						DM	SS
6J00018	Variable Speed Limit Sign Installation	Each	Variable Message Sign Installation				X	X						DM	SS
6J00020	System Control Cabinet Installation	Each	Variable Message Sign Installation				X	X						DE	SS
6J00021	Electric Service Meter Cabinet	Each	Roadway Lighting	X	X		X					X		CM	SS
6J00022	Power Equipment on ITSS	Each	Roadway Lighting	X	X		X							DE	SS
6J00023	Transformer, Type 37.5kVA	Each	Variable Message Sign Installation				X							DE	SS
6J00024	CCTV Camera, ITSS Mounted	Each	CCTV Camera Installation	X	X		X							DE	SS
6J00121	CCTV Camera, Pole Mounted With Lowering Device	Each	CCTV Camera Installation	X	X		X							DE	SS
6J00026	Relocation of Highway Advisory Road Sign	L.S.	Common Electrical Provisions	X	X	X	X					X	X	CM	563-76
6J00032	Wireless Access Point, ITSS Mounted	Each	Wireless Vehicle Detection System				X							DE	SS
6J00031	2-Way Duct Bank, 4" HDPE Conduits Directional Drilled	L.F.	Common Electrical Provisions	X	X		X					X	X	DE	SS
6J00045	2-Way Comm Duct Bank, Soil Encased	L.F.	Common Electrical Provisions	X	X		X					X	X	CM	SS
6J00048	4" HDPE Conduit with Pull Cords	LF	Common Electrical Provisions	X	X		X					X	X	CM	563-76
6J00049	4-Way Duct Bank, 4" HDPE Conduits Directional Drilled	L.F.	Common Electrical Provisions	X	X		X					X	X	DE	SS
6J00051	Concrete Foundations For Aluminum Light Assemblies	Each	Concrete Foundations For Aluminum Light											CM	
6J00053	2-Way Comm Duct Bank, Concrete Encased	L.F.	Common Electrical Provisions	X	X		X					X	X	CM	SS
6J00057	4-Way Power/Comm Duct Bank, On Structure	L.F.	Common Electrical Provisions	X	X		X					X	X	CM	SS

Exhibit 3 - 9
Material Acceptance Criteria Matrix

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6J00063	Reestablish/Relocate Underground Customer Electric Service	L.S.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J00065	Multi-Mode Fiber Optic Cable, 6-Fibers	L.F.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00067	Lighting Standard, Type L-ITS-40	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00068	ITS Power Equipment, Pedestal Mounted	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00071	ITS Equipment Platform, Type 2	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00075	Removal Of Highway Advisory Radio Sign System, Ground Mounted	Each	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J00076	Radio Antenna Mount	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00080	Temporary Electric Facilities, Buried	L.S.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J00081	Customer Owned Underground Service - Electric	L.S.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J00082	Customer Owned Underground Service - Telephone	L.S.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J00089	Hybrid Changeable Message Sign (This is a NO-BID, Lump Sum item for this contract. The unit price is \$65,000. Enter a Unit Price of \$65,000 as your bid for this item).	L.S.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00100	Hybrid Changeable Message Sign Installation	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00102	Image Detection System	L.S.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00103	Advanced Radar Detection	L.S.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00112	End Node Radio Installation	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00113	Software Implementation	L.S.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00117	Central Software Hosting / Maintenance	Day	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00114	Portable Variable Message Sign	Day	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00116	Portable Traffic Detection Sensor	Day	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00118	Training and Documentation	L.S.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00120	5-Way Duct Bank, 4" HDPE Conduits, Directional Drilled	L.F.	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00131	Transformer, Type 50 kVA	Each	Common Electrical Provisions	x		x		x				x	x	DE	SS
6J00144	Fiber Optic Duct Bank	L.S.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J00HAR	HAR Sign Beacon Control Equipment	Each	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J01EDB	8-5" Electric Duct Bank, PVC	L.F.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J01SR	Illuminated Sign Relocation	Each	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J01TDB	2-4" Telephone Duct Bank, PVC with Risers	L.F.	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J01TTH	30"x60" Temporary Telephone Handhole	Each	Common Electrical Provisions	x		x		x				x	x	CM	SS
6J02EDB	8-6" Electric Duct Bank on Structure, Fiberglass	L.F.	Common Electrical Provisions	x		x		x				x	x	CM	SS
7B13TWE	Landscape Wall	S.F.	TREE WELLS AND TREE WALLS	x		x		x				x	x	CM/DE	SS
7C01TOP	Topsoil	SY	Topsoiling	x				x					x	CM	590-591
7D01SED	Seeding, Type A	SY	Seeding & Sodding	x		x		x				x	x	CM	SS
7D17SED	Seeding Type W	SY	Restoration of Temporary Wetland Disturbances					x						CM	SS
7D20MOW	Mowing	Acre	Seeding & Sodding					x				x		CM	SS
7D30STM	Straw Mulching	S.Y.	Temp Soil Erosion & Dust Control	x		x						x		CM	SS
7D30WAT	Watering	MG	Seeding & Sodding					x				x		CM	SS
7E00001	Planting, Atlantic White Cedar (Chamaecyparis Thyoides)	Each	Planting, Atlantic White Cedar (Chamaecyparis Thyoides)	x	x									CM	SS
7E20MUL	Wood Chip Mulching	S.Y.	Wood Chip Mulching	x	x									CM	SS
7E40APP	Abandoned Plant Pits	C.F.	Abandoned Plant Pits	x	x									CM	SS
7F01SSM	Soil Stabilization Matting	S.Y.	Soil Stabilization Matting					x				x		CM	601-603

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7I01LNP	Block Paving	S.Y.	Block Paving					x					x	CM	SS
7I02LNP	Gravel Paving	S.Y.	Gravel Paving					x					x	CM	SS
7L01NVA	Nonvegetative Surface, Hot Mix Asphalt	S.Y.	Nonvegetative Surfaces	x	x	x						x	x	CM	SS
7N00001	Herbaceous Wetland Planting, Carex Stricta	Each	Seeding & Sodding	x	x								x	CM	SS
7N00005	Bedding for Reforestation	S.Y.	Seeding & Sodding	x	x								x	CM	SS
7N00006	Tree Snags	Each	Seeding & Sodding	x	x								x	CM	SS
7N00010	Invasive Vegetation Removal	Acre	Seeding & Sodding	x	x								x	CM	SS
7N00011	Topsoil Amendment	S.Y.	Seeding & Sodding	x	x								x	CM	SS
7N00012	Leaf Litter	C.Y.	Seeding & Sodding	x	x								x	CM	SS
7N00017	Concrete Modular Unit Wall	C.Y.	Seeding & Sodding	x	x								x	CM	
7J01BLW	Block Wall	S.F.	Block Wall	x	x								x	CM/DE	605
8A00002	Uniform Traffic Directors (This is a NO-BID, Lump Sum item for this contract. The Lump Sum price is \$50,000. Enter a Unit Price of \$50,000 as your bid for this item.)	L.S.	Traffic Control Devices		x	x		x	x		x		x	CM	474-494
8A03MPT	Precast Concrete Curb Construction Barrier	L.F.	Traffic Control Devices		x	x		x	x		x		x	CM	474-494
8A06MPT	Repair Temporary Impact Attenuators	Barrel	Traffic Control Devices				x			x				CM	474-494
8A07MPT	Repair Truck Mounted Impact Attenuators	Each	Traffic Control Devices				x			x				CM	474-494
8A10MPT	Furnishing Temporary Concrete Barrier, Type 4	L.F.	Traffic Control Devices		x	x		x	x		x		x	CM	474-494
8B00003	Flashing Arrow Boards, 4' x 8'	Each	Lane & Shoulder Closings		x	x		x	x		x		x	CM	SS
8B00TIA	Placing And Removing Temporary Impact Attenuator, Frangible Module Type A	Each	Lane & Shoulder Closings		x	x		x	x		x		x	CM	SS
8B03MPT	Furnishing Sign Stands	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B04MPT	Furnishing Sign Panel S.	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B05MPT	Furnishing Overlay Panel S.	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B06MPT	Furnishing Traffic Cones	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B07MPT	Furnishing Flashing Lights	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B08MPT	Furnishing Batteries	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B10MPT	Placing and Removing Concrete Barrier	L.F.	Lane & Shoulder Closings				x	x		x			x	CM	SS
8B14MPT	Temporary Striping	L.F.	Lane & Shoulder Closings				x	x		x			x	CM	SS
8B15MPT	Traffic Protection Patrol	M.H.	Lane & Shoulder Closings				x							CM	SS
8B16MPT	Uniformed Flagman	M.H.	Lane & Shoulder Closings				x							CM	SS
8B17MPT	Furnishing Truck with Mounted Attenuator	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B18MPT	Furnishing Temporary Impact Attenuator	Each	Lane & Shoulder Closings	x	x	x								CM	SS
8B19MPT	Furnishing Truck with Mounted Attenuator for Engineer's Use	M.H.	Lane & Shoulder Closings	x	x	x								CM	SS
8B20MPT	Placing and Removing Temporary Impact Attenuator	Each	Lane & Shoulder Closings				x	x						CM	SS
8B21MPT	Shoulder Closing for Engineer's Use	Each	Lane & Shoulder Closings				x							CM	SS
8B23MPT	Modular Guidance System	L.F.	Lane & Shoulder Closings	x	x	x	x						x	CM	SS
8B24MPT	Furnishing Traffic protection Devices	L.S.	Lane & Shoulder Closings	x	x	x								CM	SS
8B25MPT	Furnish Variable Message Sign	Each	Lane & Shoulder Closings	x	x	x	x						x	CM	SS
8B27MPT	Installation, Maintenance and Removal of Breakaway Barricades	Each	Lane & Shoulder Closings	x	x	x	x						x	CM	SS
8B31MPT	Maintenance and Protection of Traffic	L.S.	Lane & Shoulder Closings				x	x						CM	SS
8B33MPT	Emergency Lane Closure	Each	Lane & Shoulder Closings				x	x						CM	SS
8C21MLR	Maintenance and Protection of Traffic on Location No. 1	L.S.	State, County and Local Highways				x	x						CM	609-610
9A01UBW	Building Architectural Work	L.S.	Building Architectural Work	x	x	x	x						x	DE/CM	SS
9A03UBW	Building Plumbing Work	L.S.	Building Plumbing Work	x	x	x	x						x	DE/CM	SS
9A04UBW	Building Electric Work	L.S.	Building Electric Work	x	x	x	x						x	DE/CM	SS

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9A44UBW	Building Mechanical Work	L.S.	Building Mechanical Work	x		x	x	x					x	DE/CM	SS
9A45UBW	Building Structural Work	L.S.	Building Structural Work	x		x	x	x					x	DE/CM	SS
9D203015P	I-11 Soil Aggregate	C.Y.	I-11 Soil Aggregate	x	x	x	x						x	CM	SS
9D302036P	Dense-Graded Aggregate Base Course, 6" Thick	S.Y.	Aggregate Base Course	x	x	x							x	CM	634-643
9D401036M	Prime Coat	Gallon	HMA Pavements	x	x				x			x	x	CM	634-643
9D401045M	Hot Mix Asphalt 9.5H 64 Surface Course	Ton	HMA Pavements	x	x				x			x	x	CM	634-644
9D401063M	Hot Mix Asphalt 12.5H 76 Surface Course	Ton	HMA Pavements	x	x				x			x	x	CM	634-645
9D401098M	Hot Mix Asphalt 25H 64 Base Course	Ton	HMA Pavements	x	x				x			x	x	CM	634-646
9D609033M	Controlled Release Terminal	Unit	Beam Guide Rail	x	x		x						x	CM	SS
9D609036M	Controlled Release Terminal Anchorage	Unit	Beam Guide Rail	x	x		x						x	CM	SS
9D610012M	RPM, Mono-Directional, White Lens	Each	Traffic Stripes	x	x		x				x			CM	SS
9D610030M	Flexible Delineator, Ground Mounted	Unit	Traffic Stripes	x	x		x				x			CM	SS
9D612009P	Guide Sign, Type GA, Breakaway Supports	S.F.	Traffic Stripes	x	x		x				x			CM	SS
9D651246M	Fire Hydrant	Unit	Utilities	x	x		x					x		CM	SS
9D651252M	Reset Fire Hydrant	Unit	Utilities	x	x		x					x		CM	SS
9D651255M	Reset Water Valve Box	Unit	Utilities	x	x		x					x		CM	SS
9D653084M	Reset Gas Valve Box	Unit	Utilities	x	x		x					x		CM	SS
9D701021P	3" Rigid Metallic Conduit	L.F.	Roadway Lighting	x	x		x				x			CM	578
9D701102M	18" x 36" Junction Boxes	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D701117M	Junction Box Foundation	Each	Roadway Lighting	x	x		x					x		DE	SS
9D701123M	Foundation, Type SFT	Unit	Roadway Lighting	x	x		x					x		DE	SS
9D701168M	Meter Cabinet, Type T	Each	Roadway Lighting	x	x		x					x		CM	578
9D702009M	Controller, 8 Phase	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702021M	Traffic Signal Mast Arm, Aluminum	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702024M	Traffic Signal Mast Arm, Steel	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702027P	Traffic Signal Cable, 2 Conductor	L.F.	Roadway Lighting	x	x		x					x		CM	SS
9D702036M	Traffic Signal Head	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702039M	Pedestrian Signal Head	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702042M	Push Button	Unit	Roadway Lighting	x	x		x					x		CM	757
9D702045M	Image Detector	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702054M	Temporary Traffic Signal System, Location No. 1	L.S.	Roadway Lighting	x	x		x					x		CM	SS
9D702060M	Controller Turn-On	Unit	Roadway Lighting	x	x		x					x		CM	SS
9D702100M	Uninterruptible Power Source Unit with Controller Cabinet Revisions	Each	Roadway Lighting	x	x		x					x		CM	SS
9D703003M	Lighting Standard Aluminum	Each	Roadway Lighting	x	x		x					x		DE	SS
9D703018M	Luminaire	Unit	Roadway Lighting	x	x		x					x		DE	757
9D703033P	Temporary Highway Lighting System	L.S.	Roadway Lighting	x	x		x					x		DE	SS
9D704002M	ITS Conduit, Type A	L.F.	Roadway Lighting	x	x		x					x		CM	SS
9D704003M	Junction Box ITS Type A	Each	Roadway Lighting	x	x		x					x		CM	SS
9D704033P	Control Center System, Location No.1	L.S.	Roadway Lighting	x	x		x					x		DE	SS
9D704036M	Foundation, CSS Type A	Each	Roadway Lighting	x	x		x					x		DE	SS
9D704048M	Camera Standard, Type A	Each	Roadway Lighting	x	x		x					x		DE	SS
9D704060M	Camera	Each	Roadway Lighting	x	x		x					x		DE	SS
9D704063M	Controller, Camera	Each	Roadway Lighting	x	x		x					x		DE	SS
9D704066P	Fiber Optic Cable, Type A	L.F.	Roadway Lighting	x	x		x					x		DE	SS
9D704084M	Controller CTSS	Unit	Roadway Lighting	x	x		x					x		CM	SS
9DX7030020	Sign Lighting, Structure No. XX	L.S.	Sign Structures	x	x		x					x		DE	SS

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N8G0001	Standby Wrecker Service	Hour	Lane & Shoulder Closings	X		X	X							CM	SS